

حمل الآن

مجاناً وحصرياً

المراجعة رقم (1)

اختبار شهر ابريل



April Models

Model 1

First group Choose the correct answer from the given ones:

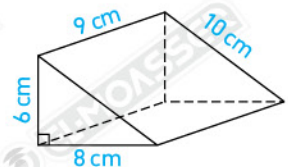
- (1) The point $(3, -5)$ lies in the _____ quadrant.
a. first b. second c. third d. fourth
- (2) If the base length of a triangle is 8 cm, and its corresponding height is 6 cm, then its area = _____ cm^2
a. 12 b. 24 c. 48 d. 28

Second group Answer the following questions:

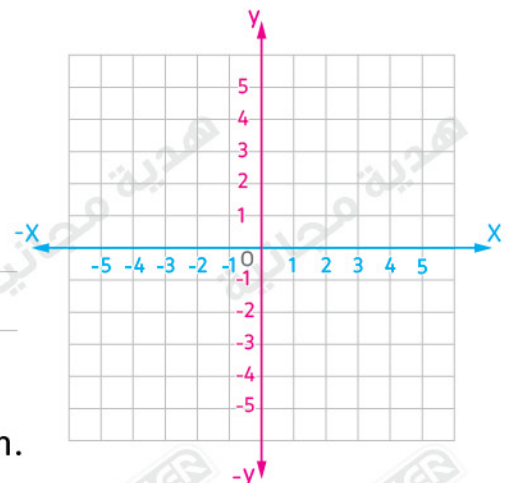
- (1) The two base lengths of a parallelogram are 8 cm, 6 cm and the greater height is 4 cm. Calculate :
a. The area of the parallelogram.

b. The smaller height.

- (2) Find the surface area of the given triangular prism.



- (3) Using graph paper, plot the points $A(-3, 2)$, $B(2, 2)$, $C(2, -3)$, then find the coordinates of the point D which makes the figure ABCD a square.

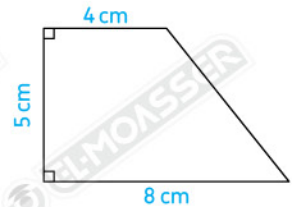


- (4) Find the volume of the cuboid whose base area is 36 cm^2 and its height is 4.5 cm.

Model 2

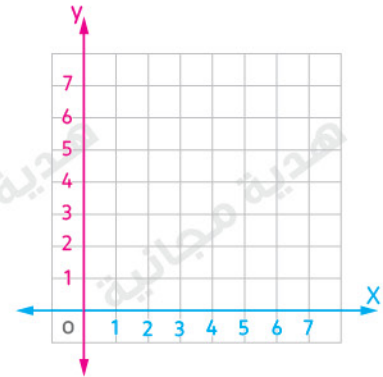
First group Choose the correct answer from the given ones:

- (1) The image of the point (3 , 0) by reflection across the y-axis is the point _____
 a. (3 , 0) b. (− 3 , 0) c. (0 , 3) d. (0 , − 3)
- (2) The area of the opposite trapezium = _____ cm^2
 a. 15 b. 30
 c. 60 d. 80

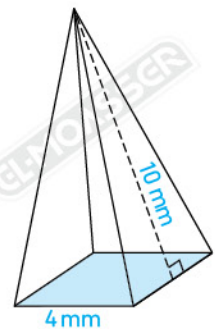


Second group Answer the following questions:

- (1) Plot the following points on the coordinate plane and connect the points in order A (2 , 2) , B (2 , 6) , C (5 , 6) , then find the name of the figure and the length of $\overline{AB}$.



- (2) Find the surface area of the opposite square pyramid.

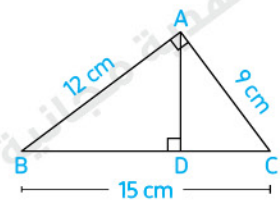


- (3) In the opposite figure:

ABC is a right-angled triangle at A , $\overline{AD} \perp \overline{BC}$,
 AB = 12 cm , AC = 9 cm , BC = 15 cm

Find: a. The area of $\triangle ABC$

b. The length of $\overline{AD}$



- (4) Find the volume of the cuboid whose length is 10 cm ,its width is 6 cm, and its height is 5 cm.

Model 3

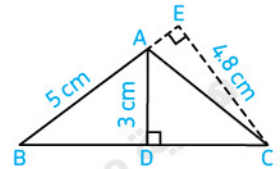
First group Choose the correct answer from the given ones:

- (1) The distance between $(-1, 3)$, $(6, 3)$ equals _____ units.
 a. 0 b. 5 c. 7 d. 16
- (2) A rhombus with side length 12 cm and height 6 cm, then its area = _____ cm^2
 a. 36 b. 18 c. 72 d. 144

Second group Answer the following questions:

- (1) In the opposite figure:

Find the area of $\triangle ABC$.



- (2) If the perimeter of one face of a cube is 24 cm, calculate its surface area.

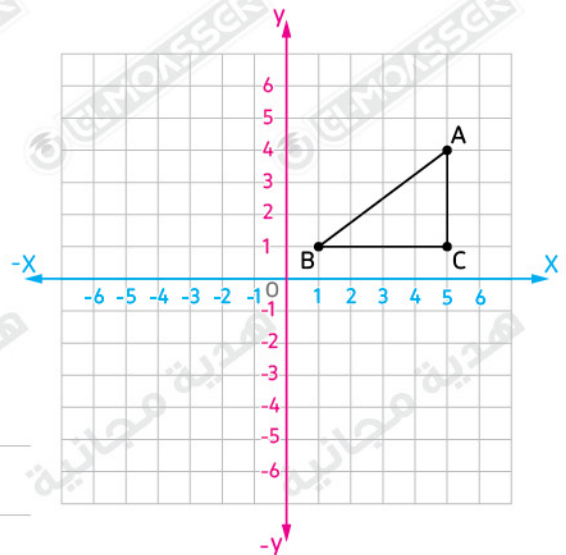
- (3) In the opposite graph paper:

a. Identify the coordinates of A and B

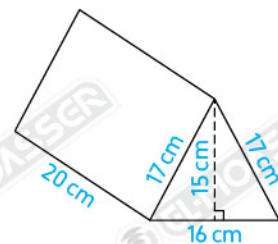
A (____, ____)

B (____, ____)

b. Draw the image of $\triangle ABC$ by reflection across the x-axis.



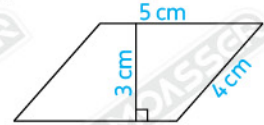
- (4) Find the surface area of the opposite triangular prism.



Model 4

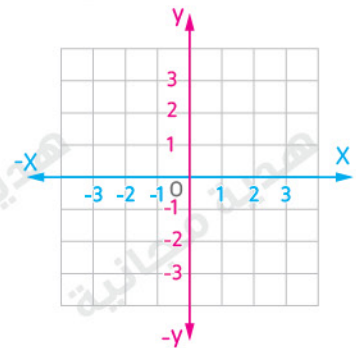
First group Choose the correct answer from the given ones:

- (1) The distance between the point $(-4, 6)$ and the y -axis is _____ units.
 a. 6 b. 0 c. 4 d. -4
- (2) The area of the opposite parallelogram = _____ cm^2
 a. 20 b. 15
 c. 12 d. 60



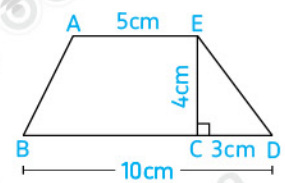
Second group Answer the following questions:

- (1) Plot the points $A(-2, 2)$, $B(3, 2)$, $C(3, 0)$, $D(-2, 0)$, then what is the name of the figure ABCD? Find its perimeter.



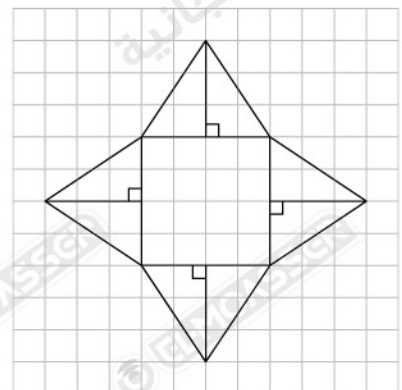
- (2) Find the surface area of the cuboid of dimensions 4 cm, 3 cm, 2 cm

- (3) In the opposite figure:
 $\overline{EC} \perp \overline{BD}$, $AE = 5 \text{ cm}$, $EC = 4 \text{ cm}$, $CD = 3 \text{ cm}$, $BD = 10 \text{ cm}$
 Find: a. The area of $\triangle ECD$



- b. The area of trapezium ABCE

- (4) By folding the opposite shape, name the solid formed, then find its surface area in square units.



Model 5

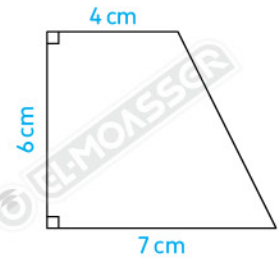
First group Choose the correct answer from the given ones:

(1) If the point $(a - 1, 1)$ lies on y -axis, then the value of $a =$ _____

- a. 0 b. - 1 c. 1 d. 2

(2) The area of the opposite trapezium is _____ cm^2

- a. 42 b. 66
c. 24 d. 33

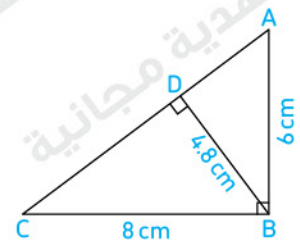


Second group Answer the following questions:

(1) In the opposite figure :

ABC is a right - angled triangle at B , $\overline{BD} \perp \overline{AC}$,
AB = 6 cm, BC = 8 cm, BD = 4.8 cm, find :

a. The area of triangle ABC

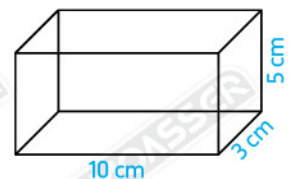


b. The length of $\overline{AC}$

(2) Find the distance between the two points $(4, - 1)$ and $(4, 5)$.

(3) If the area of a rhombus is 24cm^2 , its side length is 5 cm, find its height.

(4) Find the volume of the opposite cuboid.



Answers of April Models

Model 1

1

First group

1. (d) 2. (b)

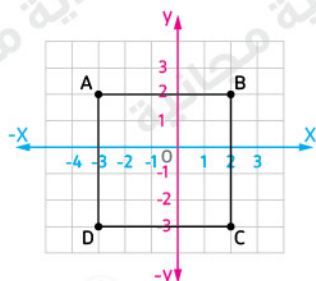
Second group

1. (a) The area = $b \times h = 6 \times 4 = 24 \text{ cm}^2$
 (b) The smaller height = $\frac{24}{8} = 3 \text{ cm}$

2. The surface area

$$= [6 \times 9] + [8 \times 9] + [10 \times 9] \\ + \left[\frac{1}{2} \times 6 \times 8 \right] + \left[\frac{1}{2} \times 6 \times 8 \right] \\ = 54 + 72 + 90 + 24 + 24 \\ = 264 \text{ cm}^2$$

- 3.



ABCD is a square, then D (- 3 , - 3)

4. The volume = base area $\times$ height = 36×4.5
 $= 162 \text{ cm}^3$

Model 2

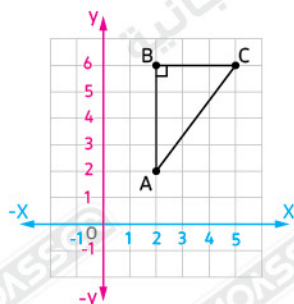
2

First group

1. (b) 2. (b)

Second group

- 1.



ABC is a triangle, AB = 4 units

2. The surface area

$$= (4 \times 4) + 4 \times \left(\frac{1}{2} \times 4 \times 10 \right) \\ = 16 + 80 = 96 \text{ mm}^2$$

3. (a) The area of $\Delta ABC = \frac{1}{2} \times b \times h$
 $= \frac{1}{2} \times 12 \times 9 = 54 \text{ cm}^2$

(b) $AD = \frac{A}{\frac{1}{2} \times b} = \frac{54}{\frac{1}{2} \times 15} = 7.2 \text{ cm}$

4. The volume = $l \times w \times h = 10 \times 6 \times 5$
 $= 300 \text{ cm}^3$

Model 3

3

First group

1. (c) 2. (c)

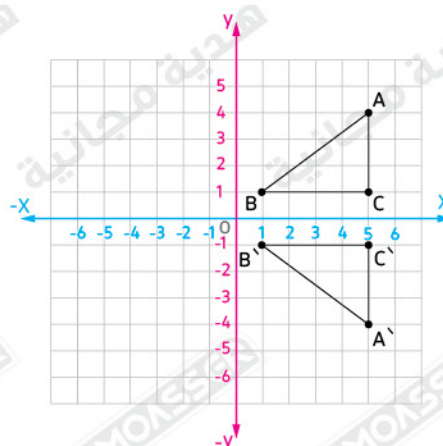
Second group

1. The area of $\Delta ABC = \frac{1}{2} \times b \times h = \frac{1}{2} \times 5 \times 4.8$
 $= 12 \text{ cm}^2$

2. The side length of a face = $24 \div 4 = 6 \text{ cm}$
 The surface area = $6 \times s \times s = 6 \times 6 \times 6$
 $= 216 \text{ cm}^2$

3. (a) A (5 , 4) , B (1 , 1)

(b)



$\hat{A} (5 , - 4) , \hat{B} (1 , - 1) , \hat{C} (5 , - 1)$

4. The surface area = $[17 \times 20] + [17 \times 20] + [16 \times 20]$
 $+ 2 \left[\frac{1}{2} \times 16 \times 15 \right] = 340 + 340 + 320 + 240$
 $= 1240 \text{ cm}^2$

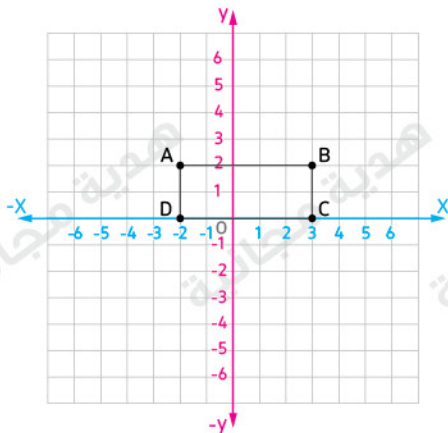
Model 4

First group

1. (c) 2. (b)

Second group

1.

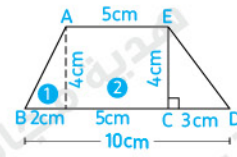


ABCD is a rectangle

The perimeter = $(L + w) \times 2 = (5 + 2) \times 2$
 $= 14 \text{ length units.}$

2. The surface area = $2 \times [l \times w + l \times h + w \times h]$
 $= 2 \times [4 \times 3 + 4 \times 2 + 3 \times 2]$
 $= 2 \times [12 + 8 + 6] = 52 \text{ cm}^2$

3.



(a) The area of $\triangle ECD = \frac{1}{2} \times b \times h = \frac{1}{2} \times 3 \times 4$
 $= 6 \text{ cm}^2$

(b) The area of figure ① = $\frac{1}{2} \times b \times h = \frac{1}{2} \times 2 \times 4$
 $= 4 \text{ cm}^2$

The area of figure ② = $l \times w = 5 \times 4 = 20 \text{ cm}^2$

The area of trapezium ABCE = $4 + 20$
 $= 24 \text{ cm}^2$

4. The solid is a square pyramid

The surface area = $(4 \times 4) + 4 \left(\frac{1}{2} \times 4 \times 3 \right)$
 $= 16 + 24 = 40 \text{ square units.}$

Model 5

First group

1. (c) 2. (d)

Second group

1. (a) The area of $\triangle ABC = \frac{1}{2} \times b \times h = \frac{1}{2} \times 6 \times 8$
 $= 24 \text{ cm}^2$

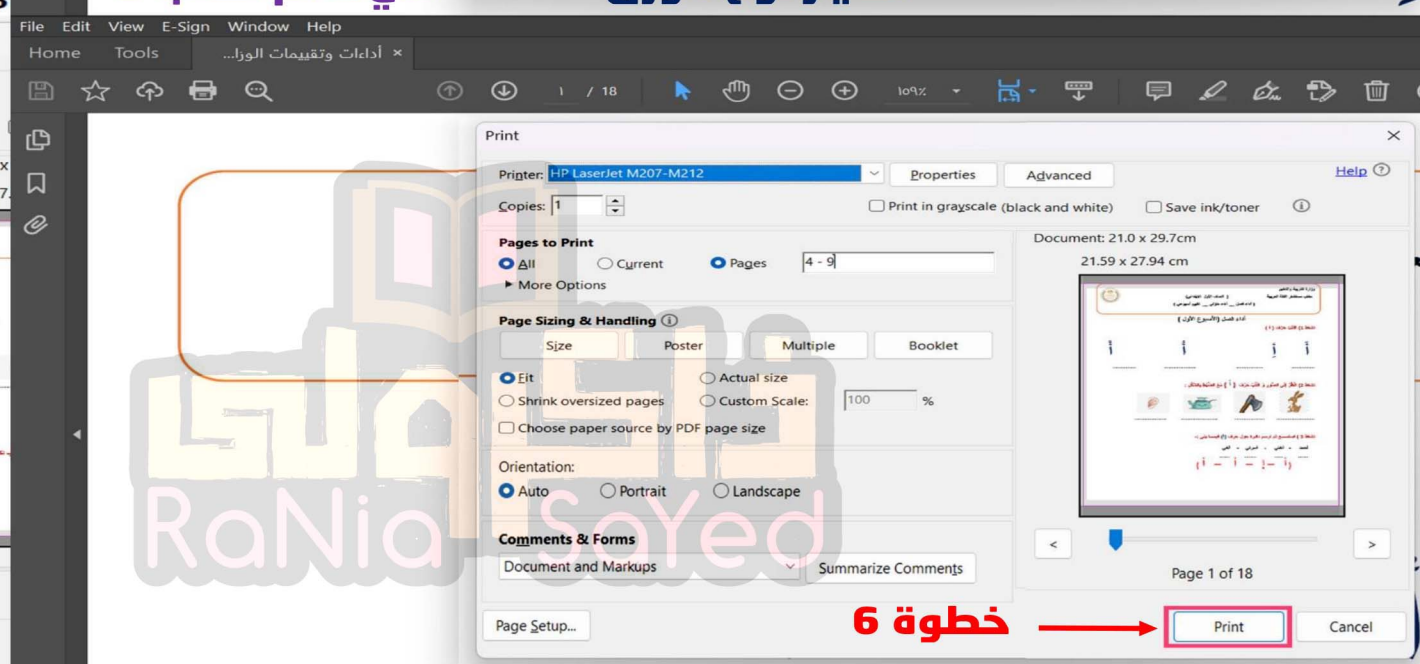
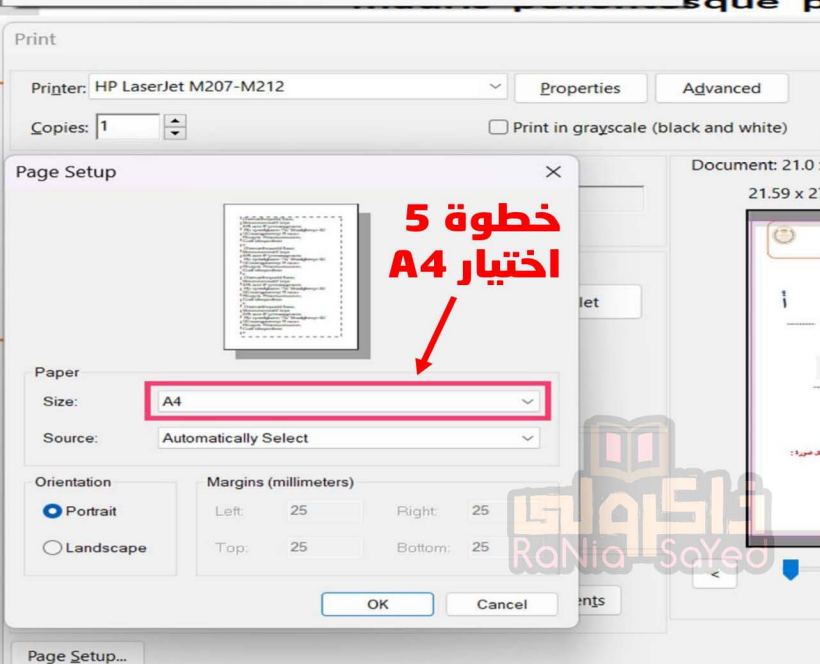
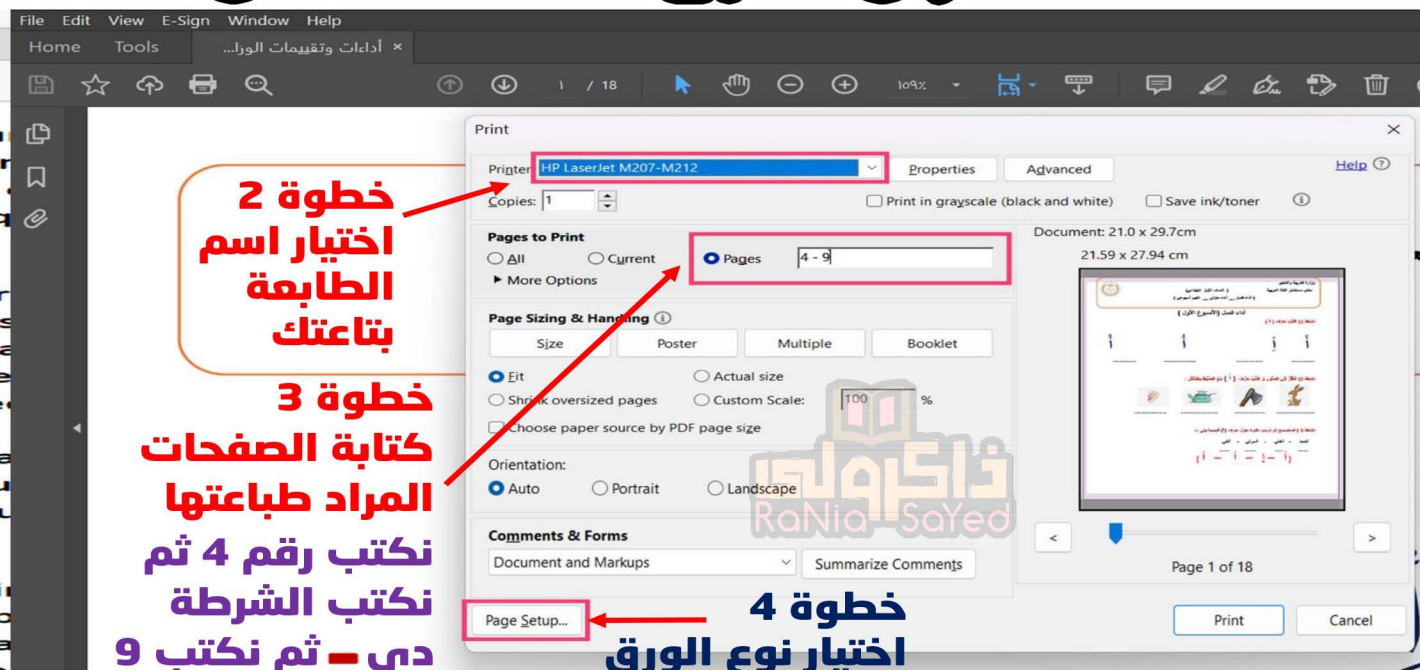
(b) $AC = \frac{A}{\frac{1}{2} \times h} = \frac{24}{\frac{1}{2} \times 4.8} = 10 \text{ cm}$

2. The distance = $|-1| + |5| = 1 + 5 = 6 \text{ units.}$

3. $h = \frac{A}{b} = \frac{24}{5} = 4.8 \text{ cm}$

4. The volume = $L \times w \times h = 10 \times 3 \times 5 = 150 \text{ cm}^3$

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

المراجعة رقم (2)

اختبار شهر ابريل



First Choose the correct answer:

2

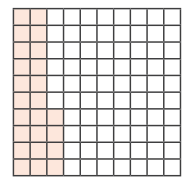
- 1 $28\% + 31\% = \dots\dots\dots$
 - a) 59
 - b) 0.59
 - c) 100%
 - d) 30%
- 2 The point $(0, 7)$ lies on $\dots\dots\dots$
 - a) Y-axis
 - b) X-axis
 - c) 3rd quadrant
 - d) 4th quadrant

Second Answer each of the following questions:

8

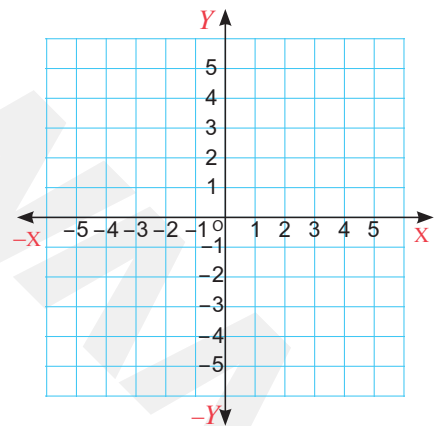
- 1 Using the given model:

Find 24% of the number 82.



- 2 Graph the points A (3, 2), B (3, -4), and C (-5, -4), then join them to draw the triangle ABC and find the image of each point by reflection across the X-axis.

- a) $\dots\dots\dots$
- b) $\dots\dots\dots$
- c) $\dots\dots\dots$



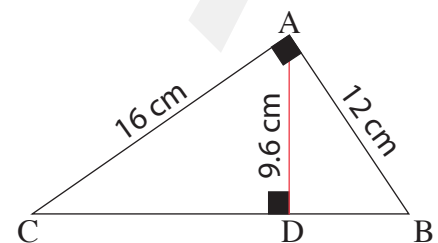
- 3 In the opposite figure:

ABC is a right-angled triangle at A, $\overline{AD} \perp \overline{BC}$,

AB = 12 cm, AC = 16 cm, and AD = 9.6 cm.

Find the area of the triangle ABC.

- a) $\dots\dots\dots$
- b) $\dots\dots\dots$



- 4 Find the distance between each pair of points:

- a) (3, 4) and (-3, 4)
- b) (0, 4) and (0, 1)
- a) $\dots\dots\dots$
- b) $\dots\dots\dots$

First Choose the correct answer:

2

- Which point is a reflection of $(1, 8)$ across the y-axis on a coordinate plane?
 a) $(1, -8)$ b) $(-1, -8)$ c) $(8, -1)$ d) $(-1, 8)$
- The point A $(-3, -3)$ lies in quadrant.
 a) first b) second c) third d) fourth

Second Answer each of the following questions:

8

- The price of a car is **360,000** L.E. and the sales tax on the car is **12 %**.

What is the price of the car after adding the tax?

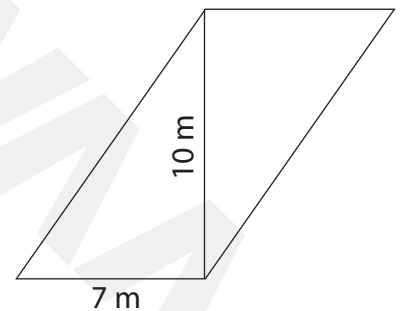
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- Find the area of the opposite parallelogram.

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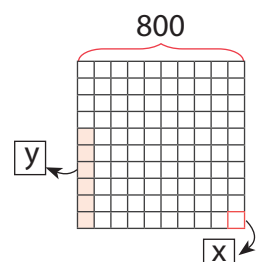


- Write the image of the following points by reflection across the X-axis:

- ▶ A $(-1, 3)$ ▶ B $(0, 9)$ ▶ C $(3, 0)$
- ▶ ▶ ▶

- Complete:

Based on the following 10×10 grid: $x + y =$



First Choose the correct answer:

2

- Area of parallelogram =
 a) $\frac{1}{2}b + h$ b) $b \times h$ c) $(b + h) \times 2$ d) $b + h$
- Which point is a reflection of $(12, -7)$ across the y-axis on a coordinate plane?
 a) $(-12, -7)$ b) $(7, 12)$ c) $(-8, 12)$ d) $(12, 7)$

Second Answer each of the following question:

8

- Younis bought a T.V set for 45,000 pounds; he paid 25 % of its price.

How much money did he pay?

.....

- Write the position of each of the following points in the coordinate plane:

a) A (8 , 0)

b) B (-1 , 3)

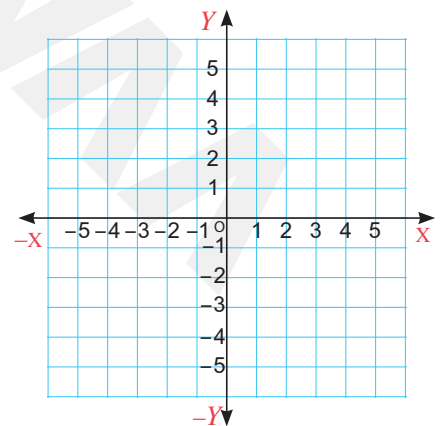
a)

b)

- Plot the points in the given order,
then complete the figure by joining
the end points, and identify the shape.

A (3 , 3) , B (3 , -3) , C (-5 , -3) , D (-3 , 3)

▶



- If the side length of a rhombus is 12 cm and its area is 132 cm^2 .

Find its height.

.....

.....

First Choose the correct answer:

2

- 1 $28\% + 31\% = \dots\dots\dots$
 - a) 59
 - b) 0.59
 - c) 100%
 - d) 30%
- 2 The point $(0, 7)$ lies on $\dots\dots\dots$
 - a) Y-axis
 - b) X-axis
 - c) 3rd quadrant
 - d) 4th quadrant

Second Answer each of the following questions:

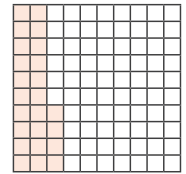
8

- 1 Using the given model:

Find 24% of the number 82.

Each part of the model represents $= 82 \div 100 = 0.82$,

then 24% of 82 $= 82 \times 24\% = 19.68$

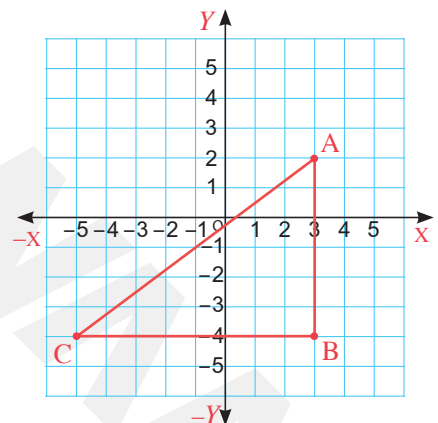


- 2 Graph the points A $(3, 2)$, B $(3, -4)$, and C $(-5, -4)$, then join them to draw the triangle ABC and find the image of each point by reflection across the X-axis.

► The image of point A $(3, 2)$ by reflection across X-axis is $(3, -2)$.

► The image of point B $(3, -4)$ by reflection across X-axis is $(3, 4)$.

► The image of point C $(-5, -4)$ by reflection across X-axis is $(-5, 4)$.



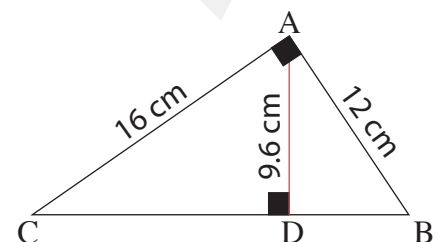
- 3 In the opposite figure:

ABC is a right-angled triangle at A, $\overline{AD} \perp \overline{BC}$,

AB = 12 cm, AC = 16 cm, and AD = 9.6 cm.

Find the area of the triangle ABC.

$$\begin{aligned} \text{Area of triangle} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 16 \times 12 = 96 \text{ cm}^2 \end{aligned}$$



- 4 Find the distance between each pair of points:

a) $(3, 4)$ and $(-3, 4)$

b) $(0, 4)$ and $(0, 1)$

a) The distance between $(3, 4)$ and $(-3, 4) = |3| + |-3| = 3 + 3 = 6$ units

b) The distance between $(0, 4)$ and $(0, 1) = |4| - |1| = 4 - 1 = 3$ units

First Choose the correct answer:

2

- Which point is a reflection of (1, 8) across the y-axis on a coordinate plane?
 a) (1, -8) b) (-1, -8) c) (8, -1) d) (-1, 8)
- The point A (-3, -3) lies in quadrant.
 a) first b) second c) third d) fourth

Second Answer each of the following questions:

8

- The price of a car is 360,000 L.E. and the sales tax on the car is 12% .

What is the price of the car after adding the tax?

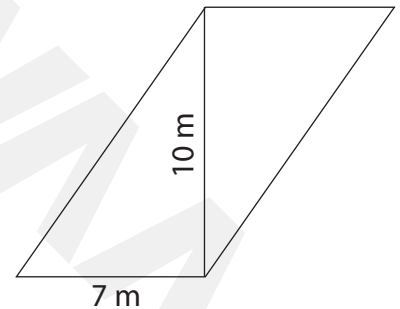
The value of the tax = $360,000 \times 12\% = 43,200$ L.E.

The price of the car after adding the tax = $360,000 + 43,200 = 403,200$ L.E.

- Find the area of the opposite parallelogram.

Area of parallelogram = $b \times h$

$$= 7 \times 10 = 70 \text{ m}^2$$



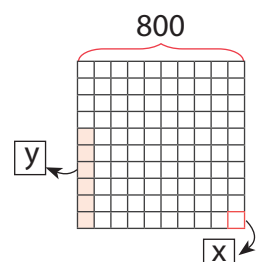
- Write the image of the following points by reflection across the X-axis:

▶ A (-1, 3) ▶ B (0, 9) ▶ C (3, 0)

▶ A (-1, -3) ▶ B (0, -9) ▶ C (3, 0)

- Complete:

Based on the following 10 × 10 grid: $x + y = 8 + 48 = 56$



First Choose the correct answer:

2

- Area of parallelogram =
 a) $\frac{1}{2}b + h$ b) $b \times h$ c) $(b + h) \times 2$ d) $b + h$
- Which point is a reflection of $(12, -7)$ across the y-axis on a coordinate plane?
 a) $(-12, -7)$ b) $(7, 12)$ c) $(-8, 12)$ d) $(12, 7)$

Second Answer each of the following question:

8

- Younis bought a T.V set for 45,000 pounds; he paid 25 % of its price.

How much money did he pay?

Younis paid = $45,000 \times 25\% = 11,250$ pounds

- Write the position of each of the following points in the coordinate plane:

a) A (8 , 0)

b) B (-1 , 3)

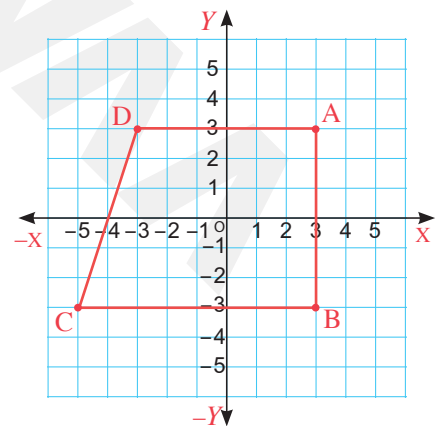
a) A (8 , 0) : lies on X-axis

b) B (-1 , 3) : lies in the 2nd quadrant

- Plot the points in the given order,
then complete the figure by joining
the end points, and identify the shape.

A (3 , 3) , B (3 , -3) , C (-5 , -3) , D (-3 , 3)

► The shape is a trapezium.



- If the side length of a rhombus is 12 cm and its area is 132 cm^2 .

Find its height.

The height = The area $\div$ base length

$$= 132 \div 12 = 11 \text{ cm}$$

حمل الآن

مجاناً وحصرياً

المراجعة رقم (3)

اختبار شهر ابريل

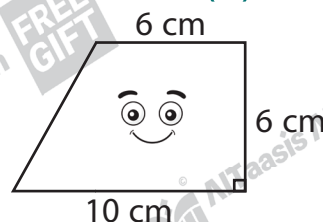


Model (1)



First Question 1 Choose the correct answer:

- (1) The point $(-3, -2)$ lies in the quadrant.
(a) first (b) second (c) third (d) fourth
- (2) The ordered pair that represents the origin point is
(a) $(0,1)$ (b) $(1,0)$ (c) $(1,1)$ (d) $(0,0)$
- (3) The point lies on the y-axis.
(a) $(3,0)$ (b) $(0,2)$ (c) $(-3,0)$ (d) $(-2,-3)$
- (4) The distance between the two points $(-2,3)$ and $(7,3)$ is units.
(a) 0 (b) 7 (c) 8 (d) 9
- (5) The number of heights in any triangle is
(a) 1 (b) 2 (c) 3 (d) 4
- (6) The area of a parallelogram whose base length is 7 cm and its height is 4 cm is cm^2 .
(a) 28 (b) 21 (c) 35 (d) 42
- (7) Area of a rhombus = base length $\times$
(a) length (b) width (c) height (d) perimeter
- (8) is a quadrilateral with only one pair of parallel sides.
(a) square (b) trapezium (c) rhombus (d) rectangle
- (9) The area of the shown trapezium = cm^2



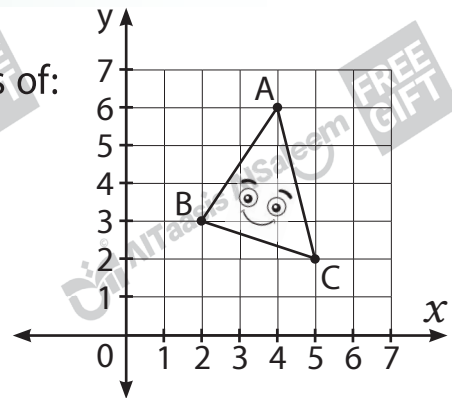
Second Question 2 Answer the following questions:

- (1) Use the following figure to find the coordinates of:

Point A (..... ,)

Point B (..... ,)

Point C (..... ,)



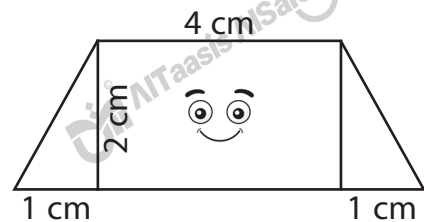
- (2) Find the area of a triangle whose base length is 6 cm and its height is 5 cm.

Area =

- (3) Find the area of the following trapezium

Answer:

.....



- (4) If the height of a rhombus is 4 cm and its area is 36 cm^2 .

Find its side length.

Answer:

- (5) Which shape has the greater area?

A triangle with base length 6 cm and its corresponding height 2.3 cm

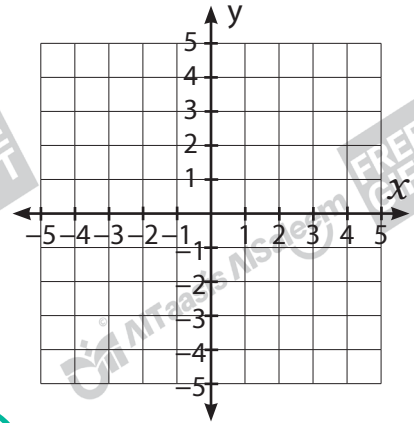
OR a rhombus of a side length 10 cm and a height 1.6 cm.

Answer:

.....

- (6) **Complete:** The height of the parallelogram with area 24 cm^2 and base length 4 cm is

(7) In the opposite coordinate plane:

a Graph the points: $A(3, -2)$, $B(3, 2)$ $C(-3, 2)$, and $D(-3, -2)$ **b** Connect the points, what is the name of figure ABCD?

Model (2)



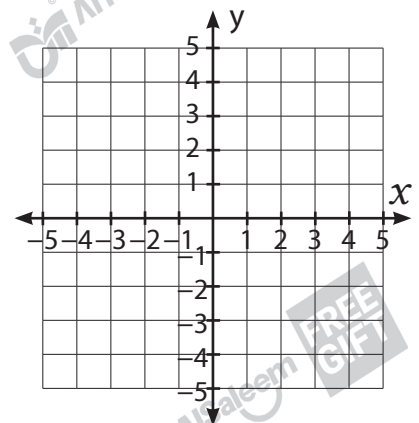
First Question 1 Choose the correct answer:

- (1) The point lies in the second quadrant.
(a) $(-5, 2)$ (b) $(5, 2)$ (c) $(-5, -2)$ (d) $(5, -2)$
- (2) The reflection of the point $(1, -2)$ across the y-axis is the point
(a) $(-1, -2)$ (b) $(-1, 2)$ (c) $(1, 2)$ (d) $(1, -2)$
- (3) A parallelogram with an area of 50 cm^2 and a base length of 5 cm, then the corresponding height is cm
(a) 6 (b) 5 (c) 8 (d) 10
- (4) Which of the following points is located on the x-axis?
(a) $(6, 0)$ (b) $(0, 6)$ (c) $(0, -6)$ (d) $(6, -6)$
- (5) The area of a triangle is equal to (**b** is the base and **h** is the height)
(a) $b \times h$ (b) $\frac{1}{2} \times b \times h$ (c) $2 \times b \times h$ (d) $b + h$
- (6) The distance between the two points $(5, -7)$ and $(5, -2)$ is units.
(a) 9 (b) 5 (c) 6 (d) 7
- (7) At the point $(6, 9)$ the y-coordinate is
(a) 6 (b) 9 (c) 3 (d) 15

- (8) The point that should be added to the points $(5, 3)$, $(5, -3)$, $(-5, -3)$ to form a rectangle is
- (a) $(5, 3)$ (b) $(-5, -3)$ (c) $(-5, 3)$ (d) $(3, -5)$
- (9) If the point $(7, A)$ lies on the x-axis, then the value of $A =$
- (a) 0 (b) 7 (c) 1 (d) 10

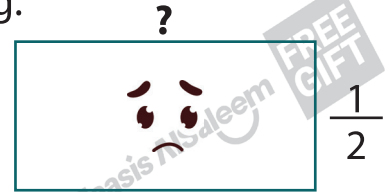
Second Question 2 Answer the following questions:

- (1) The point $(-3.5, -5)$ is the image of the point $(3.5, -5)$ by reflection across which axis?
- (2) Find the distance between the two points $(3, -2)$ and $(-1, -2)$.
.....
- (3) Find the area of a parallelogram if its base length is 13 cm and its corresponding height is 7 cm.
Answer:
- (4) Find the area of a triangle whose base length is 16 cm and its height is 9 cm
Answer:
- (5) Plot the points $(-2, 1)$, $(2, -4)$, $(-3, -4)$
Connect the points, then
write the name of the figure
Answer:
- (6) Find the area of a rhombus with side length 11 cm and a height of 6 cm
Answer:



- (7) If the area of the following rectangle is 4 cm^2 and its width is $\frac{1}{2} \text{ cm}$. The rectangle is sad because its length is missing. Help it and find its length.

Answer:



Model (3)

First Question 1 Choose the correct answer:

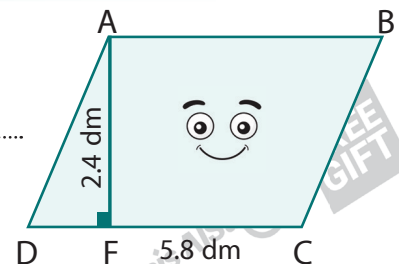
- (1) The point $(1.25, -2.5)$ lies in the quadrant.
- (a) first (b) second (c) third (d) fourth
- (2) The reflection of the point $(-4, 7)$ on the x-axis is
- (a) $(-4, 7)$ (b) $(4, -7)$ (c) $(-4, -7)$ (d) $(4, 7)$
- (3) A parallelogram with base length 10 cm and its corresponding height is 8 cm, then its area is cm^2
- (a) 80 (b) 8 (c) 18 (d) 88
- (4) The distance between -5 and -8 on the number line equals units.
- (a) 8 (b) 5 (c) 13 (d) 3
- (5) A triangle whose base length is 12 cm and its corresponding height is 4 cm, then its area is cm^2
- (a) 24 (b) 12 (c) 48 (d) 3
- (6) If the points $(2,1)$, $(-2,1)$, $(-2,-1)$ are three consecutive vertices of a rectangle, then the fourth point could be
- (a) $(1,1)$ (b) $(1,-1)$ (c) $(2,-1)$ (d) $(1,-2)$
- (7) Which point lies in the third quadrant?
- (a) $(5, 4)$ (b) $(-5, -4)$ (c) $(-4, 5)$ (d) $(-5, 4)$

- (8) The point (2, 6.5) is the image of the point (-2, 6.5) by reflection across the
 (a) x-axis (b) y-axis (c) origin point (d) otherwise
- (9) We use $A = S \times S$ to find the area of
 (a) parallelogram (b) square (c) rhombus (d) triangle

Second Question 2 Answer the following questions:

- (1) Find the area of the opposite parallelogram

Answer:



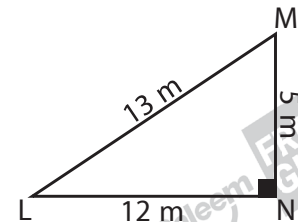
- (2) A piece of land is in the shape of a right-angled triangle with side lengths as shown in the opposite figure if the price of a square meter is 3,000 L.E.

Find the area, then find the total price of this piece of land.

Answer:

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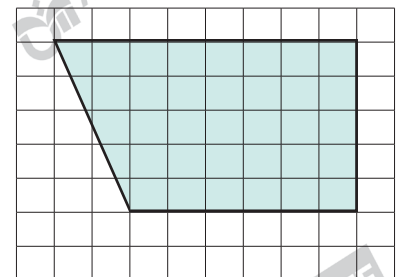
- (3) Find the area of the trapezium below using a suitable method.

Answer:

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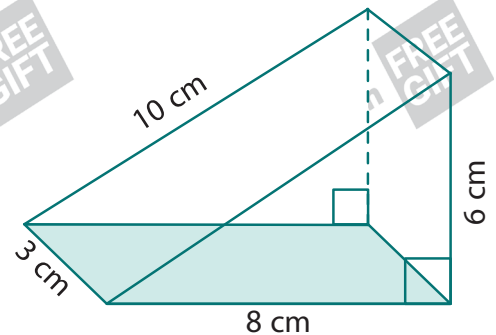
- (4) Find the area of a rhombus whose side length is 10 cm and its height is 2 cm.

Answer:

- (5) Find the surface area of the following triangular prism:

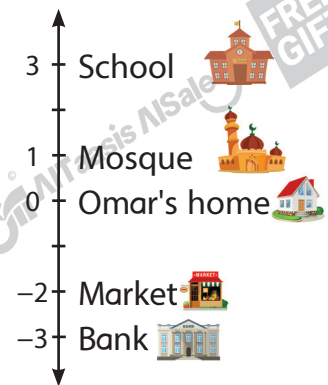


Faces	Areas
Base (1)	
Base (2)	
Face (1)	
Face (2)	
Face (3)	



The total surface area =

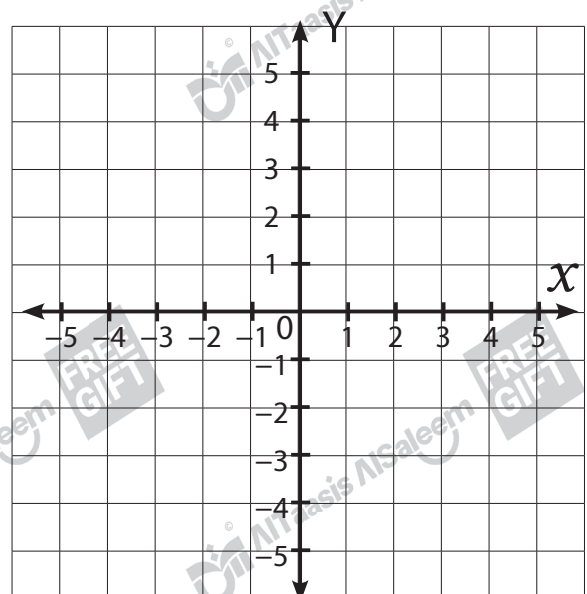
- (6) The following number line shows the location of some places relative to Omar's home (the distance between each mark on the number line represent 1 km).



Observe the number line, then answer:

- a The distance between Omar's home and the school = km.
b The distance between the mosque and the bank = km.

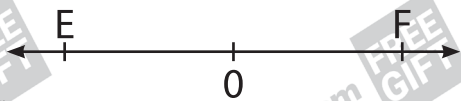
- (7) Graph the point $X(-1, 1)$, $Y(4, 1)$, $O(4, -2)$. What are the coordinates of the point Z such that $XYOZ$ forms a rectangle
 Z (..... ,)



Model (4)



First Question 1 Choose the correct answer:

- (1) The height of a rhombus whose area is 100 cm^2 and whose side length is 12.5 cm is:
 (a) 7 (b) 8 (c) 9 (d) 10
- (2) If the point $(a, 4)$ lies on the y-axis, then the value of $a =$
 (a) 4 (b) 0 (c) 1 (d) -2
- (3) At the point $(3, 7)$ the x-coordinate is
 (a) 7 (b) 73 (c) 3 (d) 37
- (4) The point $(-7, 9)$ lies in the quadrant.
 (a) first (b) second (c) third (d) fourth
- (5) The image of the point $(-4, 7)$ by reflection across the x-axis is
 (a) $(-4, 7)$ (b) $(-4, -7)$ (c) $(4, 7)$ (d) $(4, -7)$
- (6) On the following number line:
 The distance between E and F is:

 (a) $E - F$ (b) $E + F$ (c) $|E - F|$ (d) $|F| - |E|$
- (7) A parallelogram with base length 4.7 cm and corresponding height 2.9 cm has an area of
 (a) 13.83 cm^2 (b) 12.63 cm^2 (c) 13.63 cm^2 (d) 7.6 cm^2
- (8) A triangle with base length 25 cm and a corresponding height is 10 cm , then its area =
 (a) 125 cm (b) 250 cm^2 (c) 125 cm^2 (d) 35 cm^2
- (9) The solid that consists of 2 triangular bases and 3 rectangular faces is called a
 (a) prism (b) cube (c) pyramid (d) cuboid

Second Question 2 Answer the following questions:

- (1) Plot the following points on the coordinate plane.

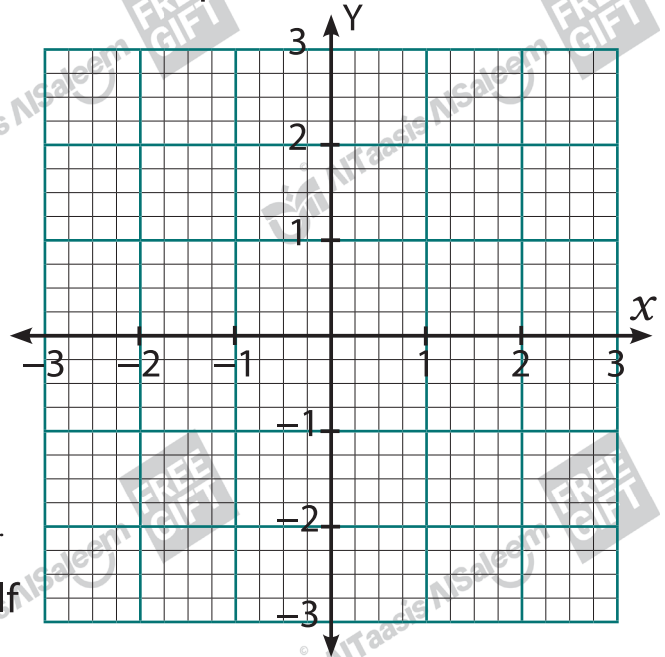
A (1.5, 1.5) , B (-2.5, -1.25)

C (0.5, 0) , D (2.5, -1.25)

Then determine:

- a** Which points represent reflections of each other across the y-axis?

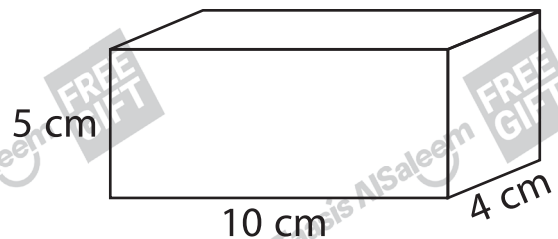
- b** Which point reflected to itself across the x-axis?



- (2) Calculate the total surface area of the following cuboid:



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.....
.....
.....



- (3) If the area of a parallelogram is 48 cm^2 and the length of its smaller base is 6 cm.

Find the length of its greater height.

Answer:

- (4) A rhombus has a side length of 3.5 cm and a height of 2.7 cm.

Find its area:

Answer:

- (5) Find the area of the opposite figure



Answer:

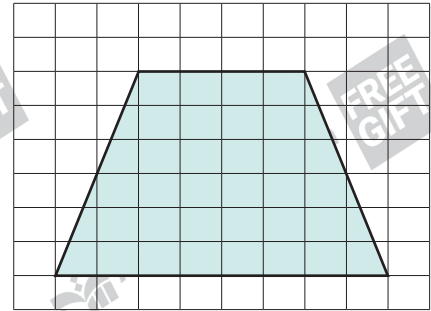
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- (6) Find the area of a rectangle with length 4.5 cm and width 3.6 cm.

Answer:

What happens to the area if the length doubles?

Answer:

- (7) In the opposite coordinate plane:

a Draw the square ABCD where one of its vertices is the point (2, 2) and its side length is 3 units.

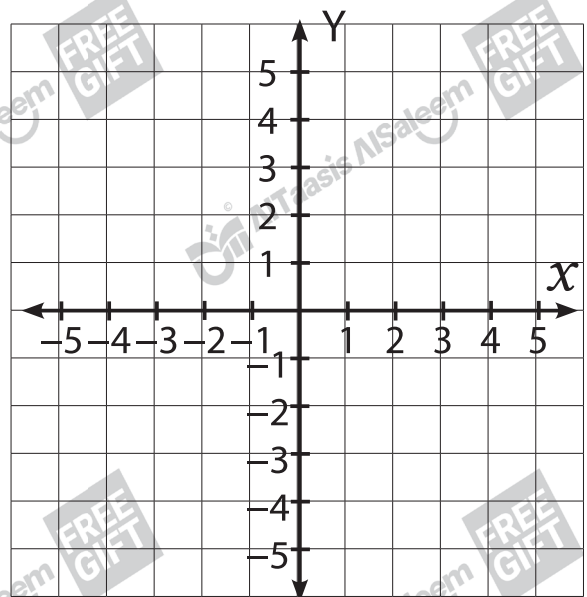
b Write the ordered pairs of the other three vertices.

Answer:

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.....

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Model (5)



First Question 1 Choose the correct answer:

- (1) All of the following points lie in the fourth quadrant except:
(a) $(2, -1.5)$ (b) $(1.5, -1.5)$ (c) $(-2.25, -2.5)$ (d) $(2, -2.5)$
- (2) The point $(0, 4)$ lies on the y-axis, and its reflection across the x-axis lies on the
(a) x-axis (b) y-axis
(c) second quadrant (d) fourth quadrant
- (3) If the distance between A and the point 4 on the given number line is 7 units, then the value of A =
(a) 4 (b) -3 (c) 7 (d) -7
- (4) The points $(8, 5)$ and $(3, 5)$ are on the
(a) same vertical line (b) same horizontal line
(c) two lines (d) none
- (5) A rhombus with area 60 cm^2 and height 10 cm, then its side length is cm
(a) 6 (b) 600 (c) 0.6 (d) 60
- (6) A cube whose one face has an area of 5 cm^2 , then its total surface area is equal to cm^2
(a) 10 (b) 20 (c) 30 (d) 50
- (7) The height of a parallelogram is 10 cm and its area is 120 cm^2 , then its corresponding base length =
(a) 12 cm^2 (b) 12 cm (c) 1200 cm^2 (d) 120 cm^2



- (8) A triangle with base length 40 cm and its corresponding height 14 cm, then its area =
 (a) 280 cm (b) 560 cm^2 (c) 280 cm^2 (d) 54 cm^2
- (9) If the two points L(1,2) and M(5,4) are two vertices of a right-angled triangle LMN, then the point N could be:
 (a) (1, 4) (b) (2, 5) (c) (5, 4) (d) (4, 1)

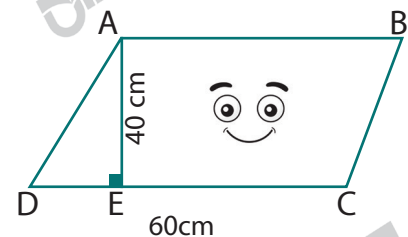
Second Question 2 Answer the following questions:

- (1) A triangle with base length 13 cm and a corresponding height of 6.7 cm. **Find its area to the nearest tenth.**

Answer:

- (2) Find the area of the opposite shape

Answer:



- (3) Locate the following points on the coordinate plane, then complete:

A (3, -5), B (-2, -5), C (-2, 4)

a The distance between points

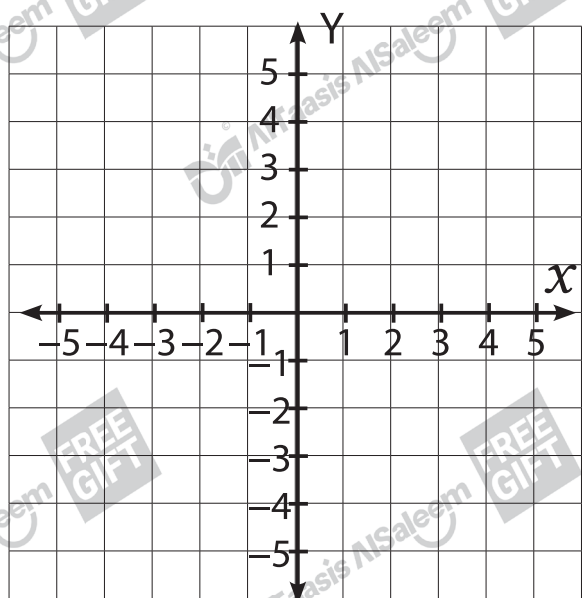
A and B = units

b The distance between the point

C and B = units

c The total distance from A to B,

then moving from B to C = units

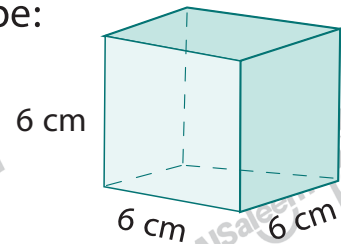


- (4) Calculate the surface area of the following cube:



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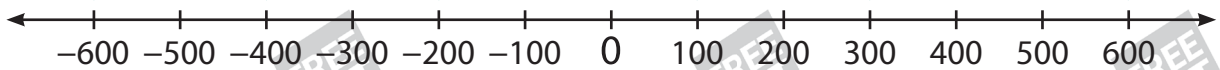
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- (5) The following number line shows the positions of runners (The distance between each two consecutive marks represents 100 meters).

Complete:

Mahmoud Zyad Nour Hassan Ahmed Mohamed



- a** The distance between Mohamed and Ahmed = meters
- b** The number of meters Nour needs to reach Mohamed = meters
- c** The runner who is the farthest from Mohamed is and he needs meters to reach Mohamed.

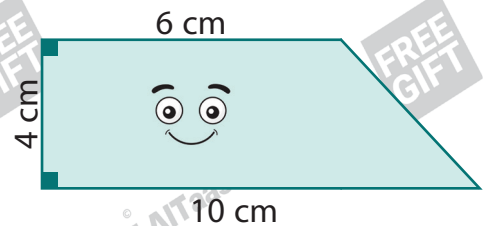
- (6) Find the area of the opposite trapezium

Answer:

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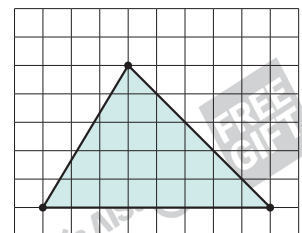
- (7) In the opposite coordinate plane:

Draw the height of the triangle, then find the area

Answer:

.....

.....



Model (1)

First Question:

- (1) c (2) d (3) b (4) d (5) c
(6) a (7) c (8) b (9) a

Second Question:

- (1) point A (4 , 6) point B (2 , 3) point C (5 , 2)

$$(2) \text{Area} = \frac{1}{2} \times b \times h = \frac{1}{2} \times 3 \times 5 = 15 \text{ cm}^2$$

$$(3) \text{Area of figure 1} = \frac{1}{2} \times 2 \times 1 = 1 \text{ cm}^2$$

$$\text{Area of figure 2} = 4 \times 2 \times 8 \text{ cm}^2$$

$$\text{Area of figure 3} = 1 \text{ cm}^2$$

$$\text{Area of the trapezium} = 1 + 8 + 1 = 10 \text{ cm}^2$$

$$(4) \text{Side length} = A \div h = 36 \div 4 = 9 \text{ cm}$$

$$(5) \text{Area of a triangle} = \frac{1}{2} \times 3 \times 2.3 = 6.9 \text{ cm}^2$$

$$\text{Area of a rhombus} = 10 \times 1.6 = 16 \text{ cm}^2$$

$$\text{Area of a rhombus} > \text{Area of a triangle}$$

$$(6) \text{height} = 24 \div 4 = 6 \text{ cm}$$

$$(7) \text{A rectangle}$$

Model (2)

First Question:

- (1) a (2) a (3) d (4) a (5) b
(6) b (7) b (8) c (9) a

Second Question:

$$(1) \text{Y axis}$$

$$(2) 3 + 1 = 4 \text{ units}$$

$$(3) A = b \times h = 13 \times 7 = 91 \text{ cm}^2$$

$$(4) A = \frac{1}{2} \times b \times h = \frac{1}{2} \times 8 \times 9 = 72 \text{ cm}^2$$

$$(5) \text{A triangle}$$

$$(6) A = b \times h = 11 \times 6 = 66 \text{ cm}^2$$

$$(7) \text{Length} = A \div W = 4 \div \frac{1}{2} = 8 \text{ cm}$$

Model (3)

First Question:

- (1) d (2) c (3) a (4) d (5) a
(6) c (7) b (8) b (9) b

Second Question:

$$(1) A = b \times h = 5.8 \times 2.4 = 13.92 \text{ dm}^2$$

$$(2) A = \frac{1}{2} \times b \times h$$

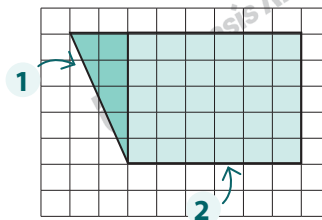
$$\frac{1}{2} \times 12 \times 5 = 30 \text{ m}^2$$

$$\text{The price of the land} = 30 \times 3,000 = 90,000 \text{ L.E.}$$

$$(3) \text{Area of figure 1} = \frac{1}{2} \times 2 \times 5 = 5 \text{ square units}$$

$$\text{Area of figure 2} = 6 \times 5 = 30 \text{ square units.}$$

$$\text{Area of the trapezium} = 30 + 5 = 35 \text{ square units.}$$



$$(4) A = b \times h = 10 \times 2 = 20 \text{ cm}^2$$

$$(5) \text{Base (1)} = \frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$$

$$\text{Base (1)} = \frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$$

$$\text{Face (1)} = 6 \times 3 = 18 \text{ cm}^2$$

$$\text{Face (2)} = 10 \times 3 = 30 \text{ cm}^2$$

$$\text{Face (3)} = 8 \times 3 = 24 \text{ cm}^2$$

$$\text{Surface area} = 24 + 24 + 18 + 30 + 24 = 120 \text{ cm}^2$$

$$(6) (a) 3 \text{ km. (b) 4 km.}$$

$$(7) Z (-1, -2)$$

Model (4)

First Question:

- (1) b (2) b (3) c (4) b (5) b
(6) c (7) c (8) c (9) a

Second Question:

(1) B and D are reflections of each other across the y-axis, point C is a reflection to itself across the x-axis.

$$\begin{aligned} (2) \text{ Surface area (SA)} &= 2 \times [lw + lh + wh] \\ &= 2 \times [(10 \times 4) + (10 \times 5) + (4 \times 5)] \\ &= 2 \times (40 + 50 + 20) \\ &= 2 \times 110 = 220 \text{ cm}^2 \end{aligned}$$

$$(3) \text{ height} = 48 \div 6 = 8 \text{ cm}$$

$$(4) A = b \times h = 3.5 \times 2.7 = 9.45 \text{ cm}^2$$

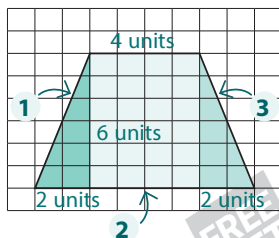
$$(5) \text{ Area of figure 1} = \frac{1}{2} \times 2 \times 6 = 6 \text{ units}$$

$$\text{Area of figure 2} = 4 \times 6 = 24 \text{ units}$$

$$\text{Area of figure 3} = \frac{1}{2} \times 2 \times 6 = 6 \text{ units}$$

$$\text{Area of the trapezium} = \text{Area of figure 1} + \text{Area of figure 2} + \text{Area of figure 3}$$

$$\text{Area of the trapezium} = 6 + 24 + 6 = 36 \text{ units}$$

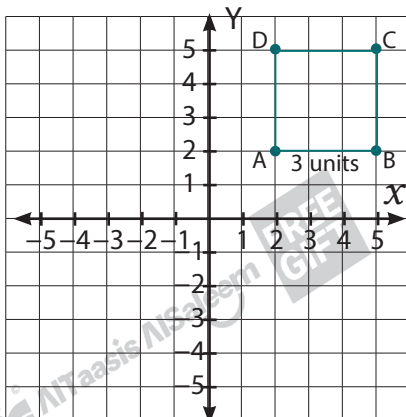


$$(6) A = L \times W = 4.5 \times 3.6 = 16.2 \text{ cm}^2$$

$$\text{The area will double. } A = (32.4 \text{ cm}^2)$$

$$A = 2 \times L \times W = 2 \times 4.5 \times 3.6 = 32.4 \text{ cm}^2$$

(7) A (2, 2) B (5, 2) C (5, 5) D (2, 5) (Answer may vary)



Model (5)

First Question:

(1) c (2) b (3) b (4) b (5) a

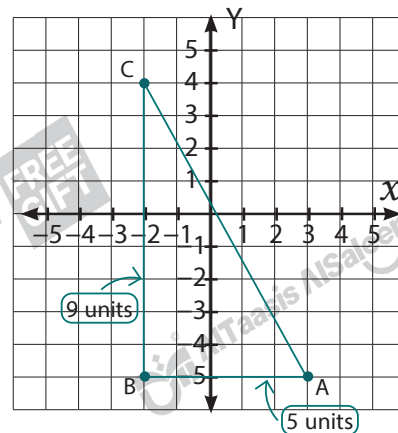
(6) c (7) b (8) c (9) a

Second Question:

$$(1) A = \frac{1}{2} \times 6.7 \times 13 = 43.55 \text{ cm}^2 \rightarrow 43.6 \text{ cm}^2$$

$$(2) \text{ Area} = b \times h = 60 \times 40 = 2400 \text{ cm}^2$$

(3) (a) 5 units (b) 9 units (c) 14 units



$$(4) \text{ Surface area (SA)} = 6 \times S^2$$

$$= 6 \times 6^2 = 6 \times 36 = 216 \text{ cm}^2$$

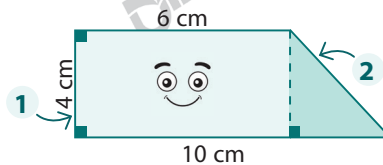
(5) (a) 300 meters (b) 800 meters

(c) Mahmoud, 1,200

$$(6) \text{ Area of figure 1} = 6 \times 4 = 24 \text{ cm}^2$$

$$\text{Area of figure 2} = \frac{1}{2} \times 4 \times 4 = 8 \text{ cm}^2$$

$$\text{Area of the trapezium} = 24 + 8 = 32 \text{ cm}^2$$



$$(7) \text{ Area} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 8 \times 5 = 20 \text{ square units}$$

حمل الآن

مجاناً وحصرياً

المراجعة رقم (4)

اختبار شهر ابريل



Lesson (1):

Exploring the Coordinate Plane

Week (9)

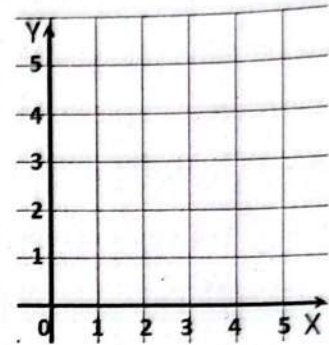
Date: / /

Classroom Performance:

Activity 1: Play with Dots

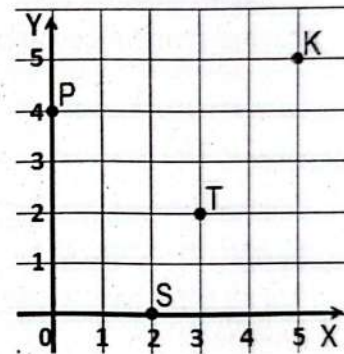
Plot the following dots using the coordinates:

A(4, 0) B(2, 5) C(5, 1) D(0, 2)



Activity 2: Determine the dots (Cooperate with your classmate):

Observe the marked points on the opposite coordinate plane, and write the ordered pair for each point.



Homework:

Answer the following questions:

- 1) If we start from the origin and move 7 units horizontally to the right on the x-axis, and 5 units vertically upwards, state the ordered pair that expresses the position of this point.
- 2) State the axis on which all the following points lie: (0, 8), (0, 2), (0, 4).
- 3) State the number that represents the x-coordinate in the ordered pair (5, 7).
- 4) When does a point lie on the y-axis?
- 5) State the coordinates of the point you reach when you move 2 units to the right from the point (3, 2).

Lesson (2):

Analyzing The Coordinate Plane

Week (9)

Date: / /

Classroom Performance:

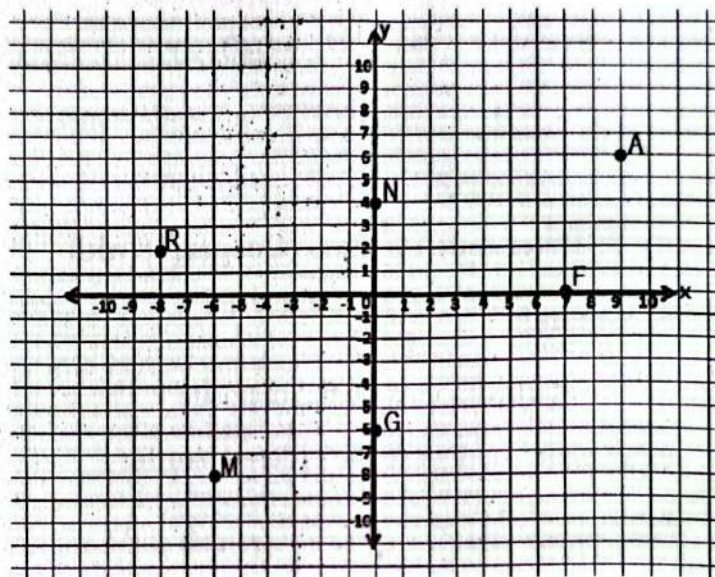
Activity (1): Reflection in the Plane

In cooperation with your group members, determine the positions of the following ordered pairs on the coordinate plane, and then find their reflection in x-axis and represent it on the coordinate plane: A (2, 3), B (-4, -6), C (0, 5), Z (8, 0)

Activity 2: Locations on the Plane

(Share with your classmate)

Observe the points marked on the coordinate plane, and then write the ordered pair for each point.



Homework:

Answer the following questions:

1) Determine the quadrant or axis on which each of the following points lies:

$(-7, 4)$, $(2, -5)$, $(0, 8)$, $(-3, -3)$, $(2, 4)$, $(-6, 0)$

2) Represent each of the following points on the coordinate plane,

3) And then find its reflection across the y-axis:

A (4, -6), B (0, 5), C (5, -3), D (2, 6)

4) State the reflection of point (8, 2) across the x-axis.

5) If the reflection of the point (6, 2) is (6, -2) state the axis of reflection.

Lesson (3):

Analyzing Points on The Coordinate Plane

Week (9)

Classroom Performance:

Date: / /

Activity (1): Fractions and the Coordinate Plane

Determine the following points on the coordinate plane

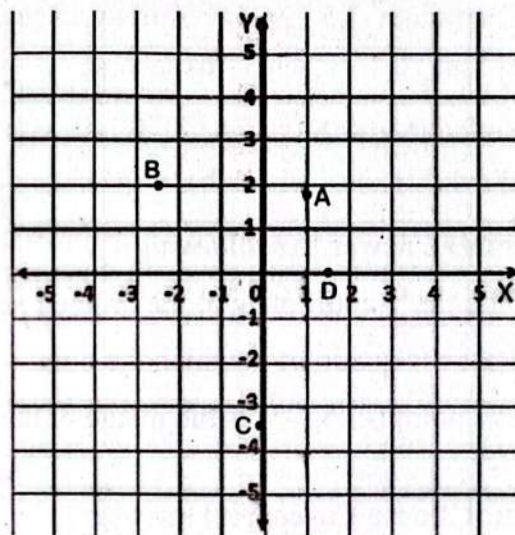
A (2, 1.5) B (2.5, 3.25) C (0, -2.5) N (-2, 1.5)

Then, determine the points that represent a reflection of each other or of themselves across the y-axis.

Activity 2 : Determination Using Fractions.

(Share with your classmate)

Observe the opposite coordinate plane and write the coordinates of the marked points

**Homework:**

Answer the following questions:

- 1- If we start from the origin and move 4 units horizontally to the left on the x-axis, then 3.5 units vertically upwards on the y-axis. Find the ordered pair that determines the position of this point.
- 2- Represent each of the following points on the coordinate plane:
A (0, 1.5) , B (-3, -2.5) , C (-2.5, -0.5) , D (2.5, -2) , N (2.25, 4.25)
- 3- Then find the reflection of each point across the x-axis.
- 4- State the reflection of the point (2.5, -1.5) across the x-axis
- 5- If the point (6, 2) is the image of the point (6, -2) by reflection, state the axis of reflection.

Weekly Assessment – Week (9)

Date: / /

Model (A)**First: Choose the correct answer:**

- 1) The point $(1.25, -2.5)$ lies in quadrant.
a) first b) second c) third d) fourth
- 2) Reflection of the point $(-4, 7)$ in y-axis results the point.....
a) $(-4, 7)$ b) $(4, -7)$ c) $(-4, -7)$ d) $(4, 7)$

Second: Answer the following:

- 1) Find the x-coordinate of the ordered pair $(7, 5)$
- 2) State the quadrant in which the point $(2, -5)$ lies.
- 3) The point $(-3, 4.5)$ is the image of the point $(3, 4.5)$ by reflection in which axis?

Model (B)**First: Choose the correct answer:**

- 1) The point $(-2.5, 1.25)$ lies in quadrant.
a) first b) second c) third d) fourth
- 2) Reflection of the point $(-4, 7)$ in x-axis results the point.....
a) $(-4, 7)$ b) $(4, -7)$ c) $(-4, -7)$ d) $(4, 7)$

Second: Answer the following:

- 1) Find the y-coordinate of the ordered pair $(7, 5)$
- 2) State the quadrant in which the point $(-5, -6)$ lies.
- 3) The point $(-3.5, -5)$ is the image of the point $(3.5, -5)$ by reflection in which axis?

Model (C)**First: Choose the correct answer:**

- 1) The point $(2.5, -1.25)$ lies in quadrant.
a) first b) second c) third d) fourth
- 2) Reflection of the point in x-axis is the point $(-4, 7)$.
a) $(-4, 7)$ b) $(4, -7)$ c) $(-4, -7)$ d) $(4, 7)$

Second: Answer the following:

- 1) Find the y-coordinate of the ordered pair $(-3, -2)$
- 2) State the quadrant in which the point $(-3, 4)$ lies.
- 3) The point $(2, 6.5)$ is the image of the point $(-2, 6.5)$ by reflection in which axis?

Lesson (4):

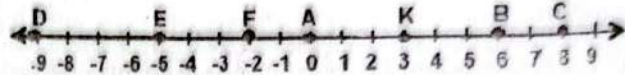
Exploring the Distance between Points on number a Line

Week (10)

Date: / /

Classroom Performance:

Activity (1): Count The Steps



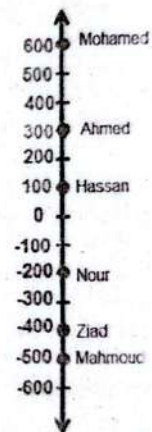
Use the given number line to complete the following:

- 1) The distance between B and C isunits.
- 2) The distance between B and A isunits.
- 3) The distance between F and C isunits.
- 4) The distance between D and E isunits.
- 5) The distance between F and K isunits.

Activity 2: The Running Race" (Share with your classmate)

The opposite number line shows the distance between a group of racers:
(Where the distance between every two markings represents 100 meters).
Observe the number line, then complete:

- 1) The distance between Mohamed and Ahmed = meters.
- 2) The distance between Mahmoud and Ziad = meters.
- 3) The distance between Hassan and Nour = meters.
- 4) The number of meters Nour needs to reach Mohamed = meters
- 5) The from racer Mohamed is and he
needs meters to reach mohamed



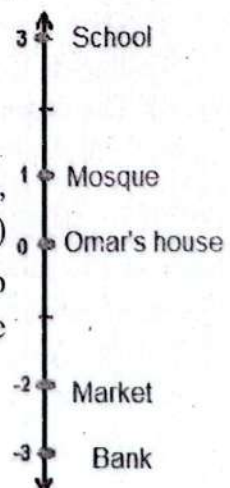
Homework:

Answer the following questions:

- 1) $|-7| + |-2| = \dots\dots\dots$
- 2) To find the distance between the two numbers 3 and -3 on the number line,
 $|3| \dots\dots\dots |-3| = \dots\dots\dots$ (explain the operation used: addition or subtraction?)

The following number line shows the locations of some places relative to Omar's house (Where the distance between every two markings on the number line represents 1 km). Observe the number line, then answer:

- 3) The distance between Omar's house and the School = km.
- 4) The distance between the mosque and the market = km.
- 5) The distance between Omar's house and the mosque = The distance between the bank and the



Lesson (5):

Exploring Distance between Points on a Coordinate Plane

Week (10)

Classroom Performance:

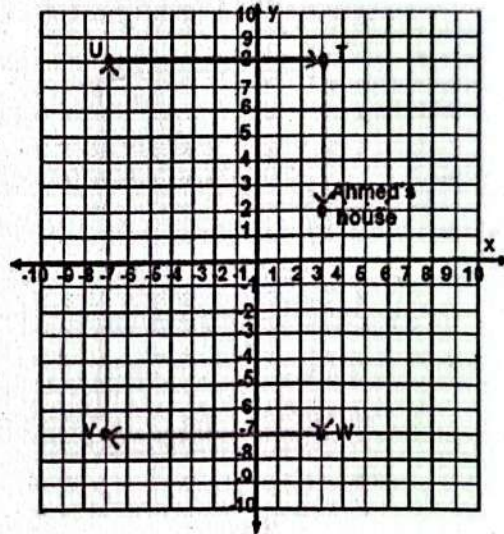
Date: / /

Activity (1): Start of the Game. (Share with your classmates)

The opposite coordinate plane represents the path that Ahmed starts at Ahmed's house and continues directly to house W. Then, Ahmed continues to visit the rest of the houses, and finally returns to his house. Note that each unit represents one building block.

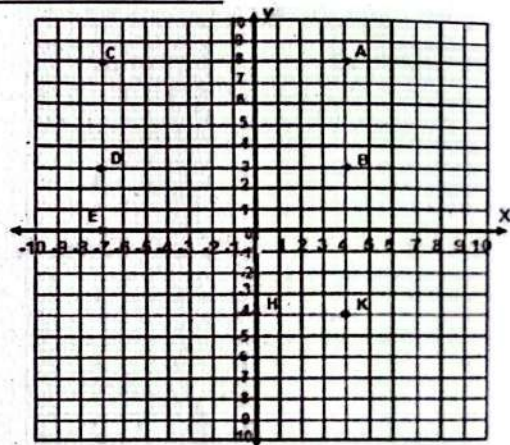
Complete the following table to calculate the distance Ahmed traveled.

Starting House	Coordinates	Next Step	Coordinates	Distance in Units
Ahmed's house	(3, 2)	House (W)	(3, -7)	$ -7 + 2 = 7 + 2 = 9$
House (W)		House (V)		
House (V)		House (U)		
House (U)		House (T)		
House (T)		Ahmed's house		

**Activity (2): Determine the distance: (Share with your classmate)**

Use the given coordinate to complete:

- 1) The distance between A and C isunits.
- 2) The distance between A and B isunits.
- 3) The distance between C and D isunits.
- 4) The distance between E and C isunits.
- 5) The distance between D and E isunits.
- 6) The distance between K and H isunits.

**Homework:**

Answer the following questions:

Find the Distance Between Each Pair of Points Below:

- 1) (2, 3) and (2, -4)
- 2) (4, -5) and (0, -5)
- 3) (-3, 0) and (-5, 0)
- 4) (3, -5) and (3, 3)
- 5) (-4, 3) and (-4, 8)

Lesson (6):

Create Geometric Shapes in The Coordinate Plane

Week (10)

Date: / /

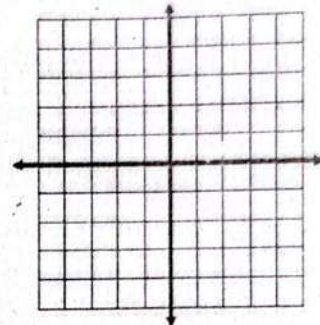
Classroom Performance:

Activity (1): Geometry and the plane. (Share with your classmates)

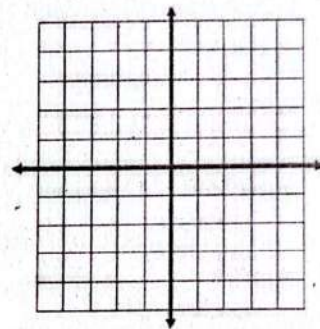
The point A (2, -3) is one of the vertices of a square.

Determine the three other points on the coordinate plane to form a square such that each side length is 4 units.

Write the coordinates of the vertices.

**Activity (2): Geometric Shapes: (Share with your classmate)**

If the point M (4, 3) is one of the vertices of a rectangle with a length of 5 units and a width of 2 units, use the coordinate plane to determine the point M, then determine the three other points to form the rectangle.



Then complete the following:

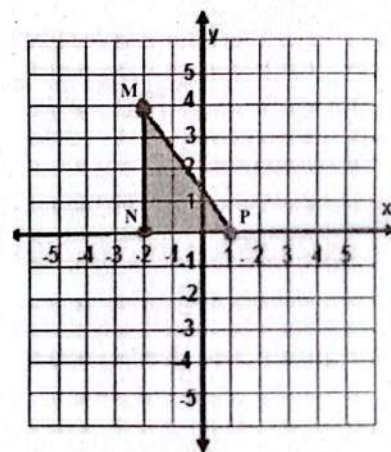
- 1) The coordinates of the points are
- 2) The distance between and the point M equals units.
- 3) The distance between M and equals units

Homework:

Answer the following questions:

From the opposite coordinate plane

- 1) Notice then complete:
 - a) The coordinate of the point M (....,)
 - b) The coordinate of the point P(....,)
 - c) The coordinate of the point N (....,)
- 2) $PN = \dots\dots\dots$ length unit
- 3) State the two sides of the right angle.
- 4) When do the coordinates of the points represent a square?
- 5) If the following ordered pairs (1, -4), (1, -2), (4, -2), (4, -4) represent a geometric shape, state the name of the resulting shape.



Weekly Assessment – Week (10)

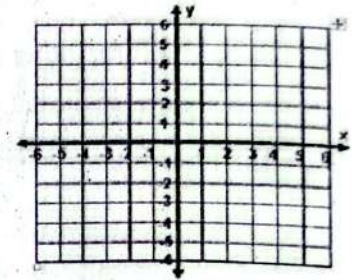
Date: / /

Model (A)**First: Choose the correct answer:**

- 1) The distance between the two numbers -9 and -6 on the number line equalsunits.
a) 9 b) 3 c) 15 d) 6
- 2) The point that can be added to the points (2, 1), (2, -1), (-2, -1) to form a rectangle is
a) (1, 1) b) (1, -1) c) (2, -1) d) (-2, 1)

Second: Answer the following:

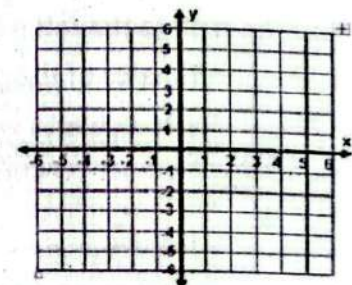
- 1) Find the distance between the two points (-1, 2), (6, 2)
- 2) Match the points (2, 0), (2, -4), (-3, -4) to form a geometric shape.
- 3) State the name of the resulted shape.

Model (B)**First: Choose the correct answer:**

- 1) The distance between the two numbers -8 and -5 on the number line equalsunits.
a) 8 b) 5 c) 13 d) 3
- 2) The point that can be added to the points (-2, -1), (2, -1), (2, 1) to form a rectangle is
a) (1, 2) b) (2, -1) c) (-2, 1) d) (1, -2)

Second: Answer the following:

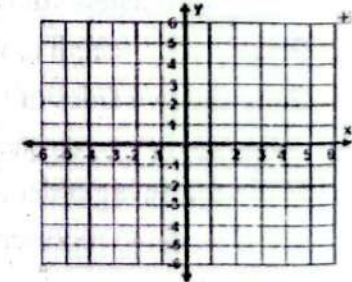
- 1) Find the distance between the two points (-1, -2), (3, -2)
- 2) Match the points (-3, -4), (2, -4), (-2, 1) to form a geometric shape.
- 3) State the name of the resulted shape.

Model (C)**First: Choose the correct answer:**

- 1) The distance between the two numbers -4 and -7 on the number line equalsunits.
a) 11 b) 7 c) 3 d) 4
- 2) The point that can be added to the points (-2, -1), (2, -1), (2, 1) to form a rectangle is
a) (-2, 1) b) (1, 2) c) (-1, -2) d) (1, -2)

Second: Answer the following:

- 1) Find the distance between the two points (3, 2), (3, -3)
- 2) Match the points (-3, -4), (2, 0), (-2, 1) to form a geometric shape.
- 3) State the name of the resulted shape.



Lesson (1):

Area of Parallelogram

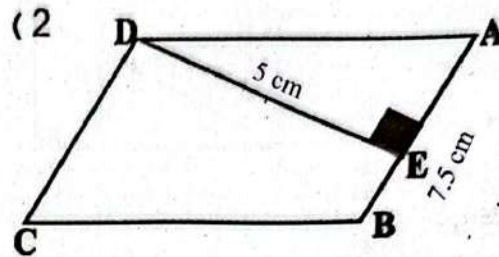
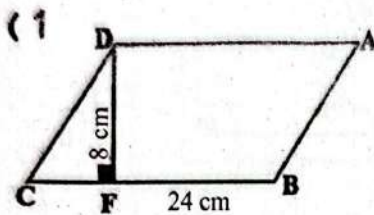
Week (11)

Date: / /

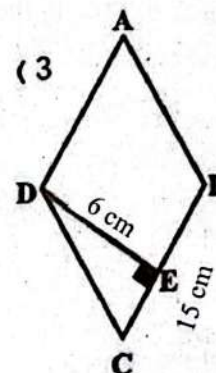
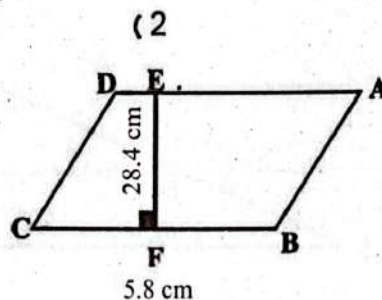
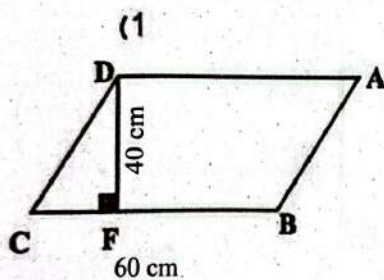
Classroom Performance:

Activity (1): Find the area by yourself.

Find the area of parallelogram in each of the following shapes:

**Activity (2): Guess with your classmates:**

Find the area of the following shapes:



Homework:

Answer the following questions:

- 1) A parallelogram has a base length of 12 cm and a corresponding height of 7 cm. Find its area.
- 2) A parallelogram has a base length of 4.7 cm and a corresponding height of 28.5 cm. Find its area to the nearest tenth.
- 3) A rhombus has a side length of 6.8 cm and a corresponding height of 3.2 cm. Find its area.
- 4) A parallelogram has an area of 63 cm^2 and a base length of 10 cm. Find the corresponding height to this base.
- 5) A rhombus has a side length of 5 cm and an area of 40 cm^2 . Find its height.

Lesson (2):

Area of the Right-Angled Triangle

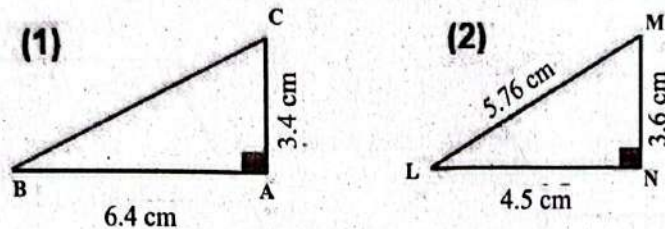
Week (11)

Date: / /

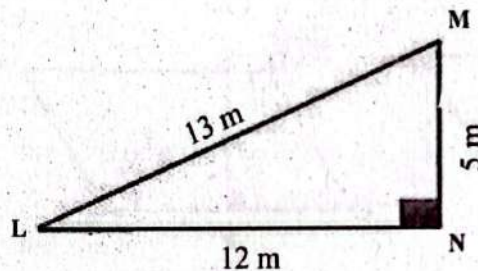
Classroom Performance:

Activity (1): The Ski Slope (Share with your classmate).

One engineer built two ski slopes as shown in the figure. Calculate the area of the two slopes.

**Activity (2): Price of a piece of land (Share with your classmates)**

A piece of land in the shape of a right-angled triangle with side lengths as shown in the following figure. If the price per square meter of the land is 3,000 pounds, find the total price of the land.



Homework:

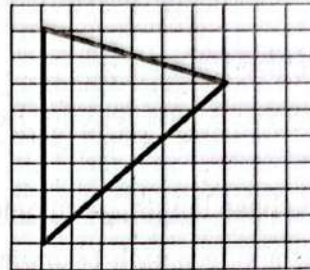
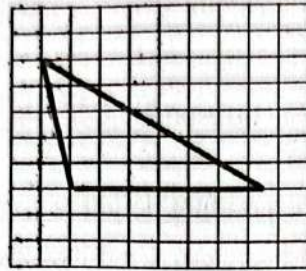
Answer the following questions:

- 1) A triangle has a base length 13 cm and a corresponding height 6.7 cm. Find its area to the nearest tenth.
- 2) A triangle has a base length 24 cm and a corresponding height 16 cm. Find its area.
- 3) A triangle has a base length 9 cm and a corresponding height 4.5 cm. Find its area to the nearest tenth.
- 4) If the area of a triangle is 20 cm^2 and its height is 5 cm, find the length of its base.
- 5) A triangle has a base length 3.5 cm and an area 14 cm^2 . Find its height.

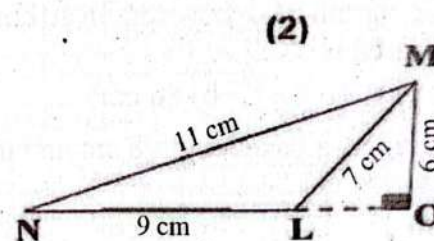
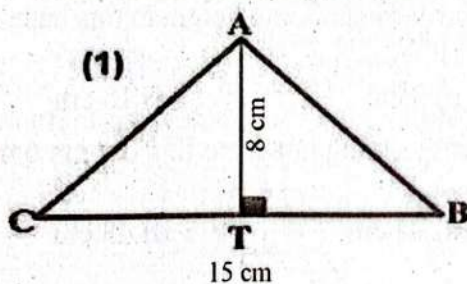
Classroom Performance:

Activity (1): Discovering the height .

On the grid, discover the height of each triangle, then find its area:

**Activity (2): Guess the area (Share with your classmates)**

Find the area of the following shapes:

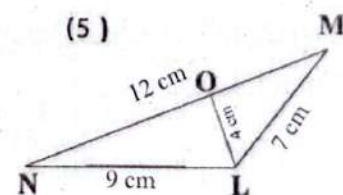
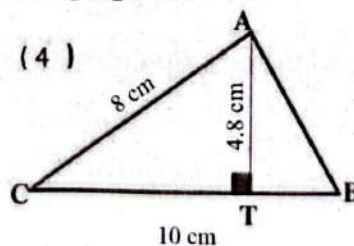


Homework:

Answer the following questions:

1. A triangle has an area 15 cm^2 and a base length of 5 cm. Find its height,
2. A triangle has a base length 28 cm and the corresponding height to this base is 10 cm.
Find its area.
3. A triangle has a base length 70 cm and the corresponding height to this base is 15 cm.
Find its area.

Find the area of the following figures:



Model (A)**First: Choose the correct answer:**

1. A parallelogram has a base length 11 cm and the corresponding height to this base is 7 cm. Then its area is
a) 77 cm b) 77 cm^2 c) 18 cm d) 18 cm^2
2. A triangle has a base length 8 cm and the corresponding height to this base is 4 cm. Then its area is
a) 32 cm b) 32 cm^2 c) 16 cm d) 16 cm^2

Second: Answer the following:

3. A parallelogram has a base length 11 cm. and the corresponding height to this base is 6 cm. Find its area.
4. A triangle has a base length 14 cm and the corresponding height is 7 cm. Find its area.
5. A rhombus has a side length 11 cm and a height of 6 cm. Find its area.

Model (B)**First: Choose the correct answer:**

- 1- A parallelogram has a base length 10 cm and the corresponding height to this base is 8 cm. Then its area is
a) 80 cm b) 80 cm^2 c) 8 cm d) 18 cm^2
- 2- A triangle has a base length 8 cm and the corresponding height to this base is 6 cm. Then its area is
a) 24 cm b) 48 cm^2 c) 24 cm^2 d) 48 cm

Second: Answer the following:

1. A parallelogram has a base length 13 cm and the corresponding height to this base is 7 cm. find its area.
2. A triangle has a base length 16 cm and the corresponding height is 9 cm.. Find its area.
3. A rhombus has a side length 12 cm and a height of 5 cm. Find its area.

Model (C)**First: Choose the correct answer:**

1. A parallelogram has a base length 12 cm and the corresponding height to this base is 6 cm. Then its area is
a) 72 cm b) 72 cm^2 c) 18 cm d) 18 cm^2
2. A triangle has a base length 6 cm and the corresponding height to this base is 4 cm. Then its area is
a) 24 cm b) 12 cm^2 c) 24 cm^2 d) 12 cm

Second: Answer the following:

- 3- A parallelogram has a base length 12 cm and the corresponding height to this base is 8 cm. Find its area.
- 4- A triangle has a base length 18 cm and the corresponding height is 8 cm. Find its area.
- 5- A rhombus has a side length 14 cm and a height 6 cm. Find its area.

12

Unit 12

Lesson (4):

Exploring Area of Trapezium

Week (12)

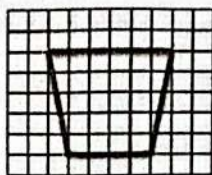
Date: / /

Classroom Performance:

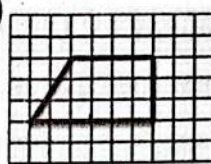
Activity (1): Discover the components of a trapezium.

Find the area of each trapezium by decomposing the shape:

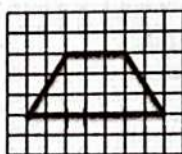
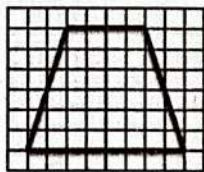
(1)



(2)



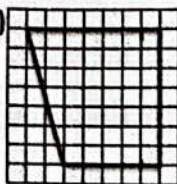
Activity (2): Guess the area (Share with your classmates)



Homework:

Find the area of each of the following trapeziums:

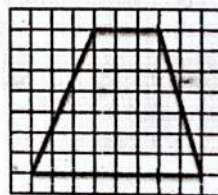
(1)



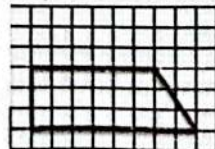
(2)



(3)



(4)



(5)



13

Unit 13

Lesson (1):

Surface Area of Cuboid

Week (12)

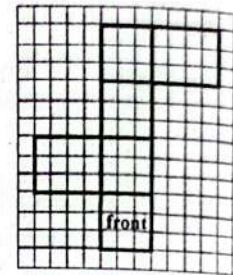
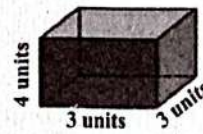
Date: / /

Classroom Performance:

Activity (1): The Gift Box

Observe the opposite net of the cuboid then answer the following:

- 1) Write the name on each face of the cuboid net using the following descriptions: (front, back, top, bottom, right, left)

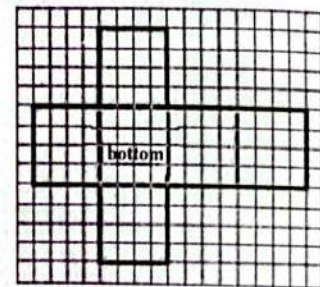


- 2) Calculate the surface area of the cuboid.

Activity (2): The cube of games: (Share with your classmates)

Observe the net of the opposite cube and then answer the following:

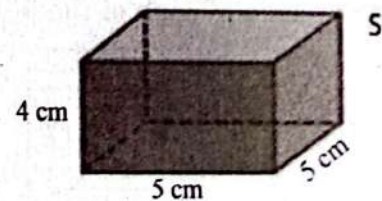
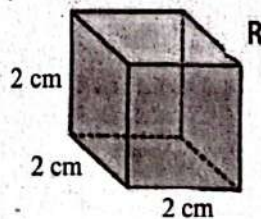
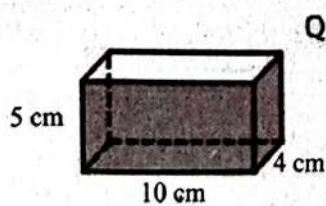
- 1) Write the name on each face of the cube's net using the following descriptions: (front, back, top, bottom, right, left)
- 2) Calculate the surface area of the cube.



Homework:

Answer the following questions:

- 3) Find the area of each of the following solids:



- 4) A door is in the shape of a cuboid with a length 100 cm, a width of 80 cm, and a thickness of 5 cm. Calculate its surface area.
- 5) A box made of metal is in the shape of a cube with an edge length of 8 cm. Calculate its surface area.

Lesson (2):

Exploring Surface Area of Prism and Pyramid

Week (12)

Date: / /

Classroom Performance:

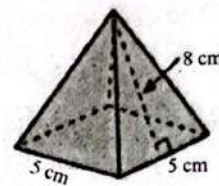
Activity (1): The Scout Camp: (Share with your colleagues)

In one of the scout camps, a tent was made as shown in the figure.

Help your colleagues in the camp to find the surface area of the shown tent..

**Activity (2): The Miniature Pyramid:**

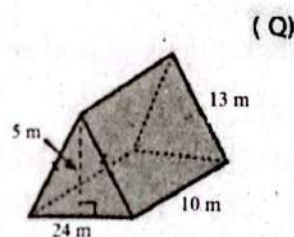
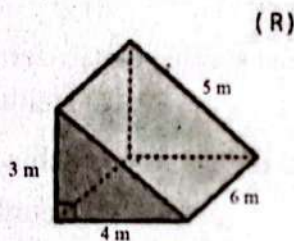
A group of students made a miniature model of a squared-base pyramid as shown in the figure. Work with your classmates and find the surface area of the pyramid.



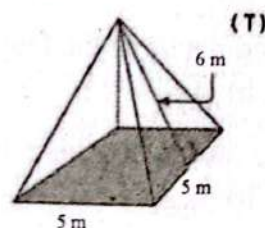
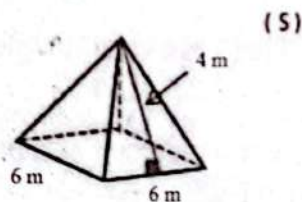
Homework:

Answer the following questions:

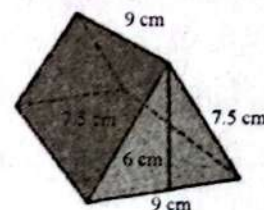
- 1) Find the area of each prism of the following:



- 2) Find the area of each pyramid of the following:



- 3) A student is making a miniature model of a camping scene, using fabric to make a small, closed tent as shown. What is the amount of fabric required?



End of the second month exercises Date: / /

First: Choose the correct answer:

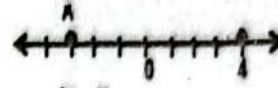
- 1) The y-coordinate in the ordered pair (3, 7) is.....
 a) 7 b) 3 c) 73 d) 37
- 2) The x-coordinate for the origin point is
 a) (0, 0) b) 1 c) 0 d) (0, 1)
- 3) The point lies on the x-axis.
 a) (2, 0) b) (2, 3) c) (1, 1) d) (0, 2)
- 4) The point (6, -5) lies in the quadrant.
 a) first b) second c) third d) fourth
- 5) Which of the following points lies in the Third quadrant?
 a) (5, 4) b) (5, -4) c) (-4, 5) d) (-5, -4)
- 6) The point lies on the y-axis.
 a) (0, -3) b) (-3, 0) c) (-4, -3) d) (4, 3)
- 7) The reflection of the point (7, -4) in the y-axis results in the point
 a) (-7, 4) b) (-7, -4) c) (7, -4) d) (-4, 7)
- 8) If the point (-3, s) lies in the Third quadrant, then the possible value of s is
 a) 0 b) -5 c) 4 d) 2
- 9) If the point (a, b) lies on the x-axis, then the symbol whose value equals zero is
 a) a b) b c) Both d) Neither of them
- 10) The point (0, 4) lies on the y-axis, and its reflection in the x-axis lies in the
 a) x-axis b) Second Quadrant c) y-axis d) Fourth Quadrant
- 11) The point (1.25, -2.5) lies in the quadrant.
 a) First b) Second c) Third d) Fourth
- 12) All of the following points lie in the fourth quadrant except: the point
 a) (2, -1.5) b) (1.5, -1.5) c) (-2.25, -2.5) d) (2, -2.5)
- 13) All of the following points do not lie in the fourth quadrant except: the point
 a) (-2.5, 0) b) (0, 1.5) c) (-0.5, -2.5) d) (2, 1.5)
- 14) The point lies on the x-axis.
 a) (-2.5, 0) b) (0, 1.5) c) (-0.5, 2.5) d) (2, 1.5)
- 15) The reflection of the point $(-\frac{1}{4}, -2\frac{1}{2})$ in the y-axis results in the point
 a) $(-\frac{1}{4}, 2\frac{1}{2})$ b) $(\frac{1}{4}, 2\frac{1}{2})$ c) $(\frac{1}{4}, -2\frac{1}{2})$ d) $(-2\frac{1}{2}, -\frac{1}{4})$

- 16) The point (0, 4) lies on the y-axis, and its reflection in the x-axis lies on the
 a) x-axis b) y-axis c) second quadrant d) fourth quadrant



- 17) the distance between the two points E and F on the given number line is:
 a) $F - E$ b) $F + E$ c) $|E| + |F|$ d) $|F| - |E|$

- 18) If the distance between the two numbers A and 4 on the given number line is 7 units, then $A = \dots\dots\dots$
 a) 4 b) -3 c) 7 d) -7



- 19) The distance between the two points (-3, 7) and (-3, 4) is units.
 a) 3 b) 0 c) 1 d) 7

- 20) The two points (5, 8) and (5, 3) lie on
 a) One vertical line b) One horizontal line
 c) Both of the two lines d) Non of the previous

- 21) The point (5, b) lies on the x-axis, then the value of b is
 a) 0 b) 1 c) 5 d) -5

- 22) The point (a, 4) lies on the y-axis, then the value of a is
 a) 0 b) 1 c) 4 d) 2

- 23) Which of the following ordered pairs does not lie on the same horizontal line with the point A(3, 2)?
 a) (7, 2) b) (5, 2) c) (2, 4) d) (0, 2)

- 24) If the point (-2, 2) is the vertex of a right-angled triangle, and the lengths of the two right-angle sides are 3 units and 5 units, then the coordinates of the other two vertices are
 a) (-2, 5), (-7, 2) b) (-2, -3), (3, -3)
 c) (-2, 7), (1, 2) d) (1, -7), (-2, -7)

- 25) If the points A(4, -4), B(4, -2), C(-2, -2), D(-2, -4) are vertices of a rectangle, then $AD = \dots\dots\dots$ units.

- a) 4 b) 3 c) 2 d) 6
 26) A parallelogram the length of its base is 4.7 cm, and the corresponding height 2.9 cm, then its area =

- a) 13.63 cm b) 12.63 cm² c) 13.63 cm² d) 7.6 cm²
 27) A rhombus of area 60 cm² and its height 10 cm, then its side length = cm
 a) 6 b) 600 c) 0.6 d) 60

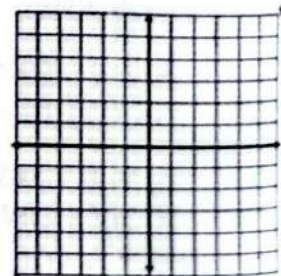
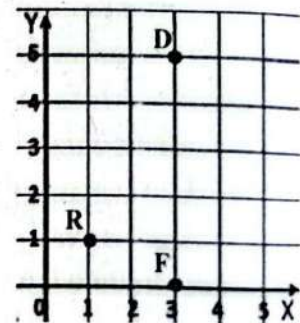
- 28) The height of a parallelogram is 10 cm and its area is 120 cm². Then the length of the corresponding base to this height is
 a) 12 cm b) 12 cm² c) 1.200 cm² d) 1.200 cm

Mathematics

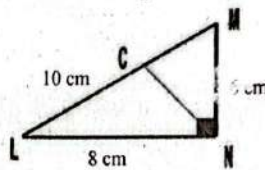
- 29) A triangle has a base length of 40 cm and the corresponding height is 14 cm. Then its area is
- a) 280 cm b) 560 cm² c) 280 cm² d) 54 cm²
- 30) A triangle has an area of 30 cm² and a height of 10 cm. Then the length of its base is
- a) 6 b) 300 c) 0.3 d) 150
- 31) The area of a right-angled triangle is equal to..... (where b is the base and h is the height)
- a) $A = b \times h$ b) $A = b \times h/2$
 c) $A = 2 \times b \times h$ d) $A = b : h$
- 32) A triangle has a base length of 25 cm and the corresponding height is 10 cm. Then its area is
- a) 125 cm b) 250 cm² c) 125 cm² d) 35 cm²
- 33) A triangle has an area of 24 cm² and a height of 8 cm. Then the length of its base is
- a) 6 b) 96 c) 192 d) 32
- 34) A square pyramid has a base area of 30 cm² and the area of one of its faces is 10 cm². Then its surface area is
- a) 40 b) 70 c) 55 d) 100
- 35) The solid that consists of two triangular bases and 3 rectangular faces is called a
- a) square pyramid b) cube c) prism d) cuboid
- 36) A cube whose one face has an area of 5 cm². Then its total surface area is equal to cm²
- a) 10 b) 20 c) 30 d) 50
- 37) Which of the following mathematical expressions can be used to find the surface area of a cuboid?
- a) $A = 2(lw + lh + wh)$ b) $A = 2wlh$
 c) $A = w + l + h$ d) $A = wlh \div 2$

Second: Answer the following questions:

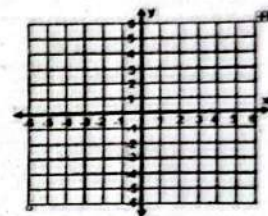
- 1) Using the opposite coordinate plane, write the ordered pair that represents the points: F, R, D.
- 2) Determine the following points on the coordinate plane: A(1.5, 1.5), B(-1.75, -2.5), C(3.5, 0), N(-1.75, 2.5) then determine the points that represent a reflection of each other, or a reflection of itself, in the x-axis.
- 3) Determine the following points on the coordinate plane, and then complete: A(-5, 3), B(-5, -2), C(4, -2)
- (a) The distance between the two points A and B is units.
- (b) The distance between the two points C and B is units.
- (c) The total distance starting from point A to point B and then moving from point B to point C isunits.



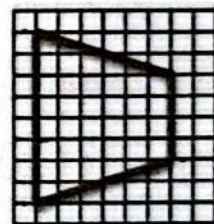
- 4) Using the coordinate plane, draw a square ABCD where one of its vertices is the point A(2,2) and its side length is 3 units. Then, write the coordinates of the other three vertices.
- 5) A parallelogram has a base length of 10 cm and an area of 40 cm^2 . Find the length of the corresponding height to this base.
- 6) A rhombus has a side length of 3.5 cm and a height of 2.7 cm. Find its area.
- 7) A parallelogram has an area of 48 cm^2 and the length of its smaller base is 6 cm. Find the length of its greater height.
- 8) A triangle has a base length of 4.2 cm and the corresponding height is 2.6 cm. Find its area.
- 9) A triangle has an area of 32 cm^2 and a height of 8 cm. Find the length of its base.
- 10) A triangle has a base length of 10 cm and an area of 35 cm^2 . Find the length of the corresponding height to this base.
- 11) In the opposite figure, find the area of the triangle and then find the length of $\overline{NC}$.



- 12) Which is smaller in area? A triangle with a base length of 40 cm and the corresponding height to this base is 20 cm. OR a triangle with a base length of 38 cm and the corresponding height is 24 cm?

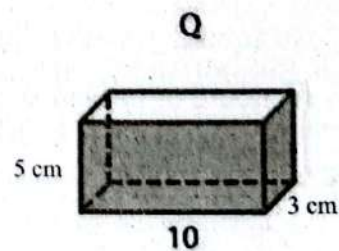
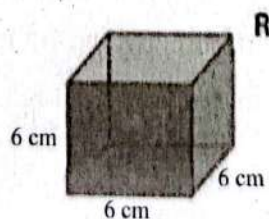
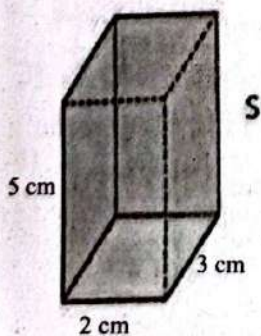
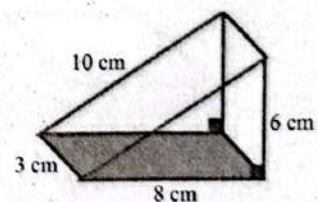


- 13) Find the area of the opposite figure.



- 14) An iron cube-shaped box is to have its outer surface painted. If the length of its edge is 3 meters, calculate its surface area.
- 15) Find the surface area of the opposite figure

Calculate the surface area of the solids in the following figures:



حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

اختبار شهر ابريل



Unit 10

Choose the correct answer

- 1 Which of the following is a unit rate ?
 - A. 60 sec per min
 - B. 6 kg per 3 liters
 - C. 2 km per 60 min
 - D. 16 grams per a cup
- 2 Which of the following is NOT a unit rate ?
 - A. 140 L.E. weekly
 - B. 90 km per 60 minutes
 - C. $\frac{1}{5}$ kg of flour per cupcake
 - D. 25 L.E. for each kg
- 3 Which of the following is a conversion factor ?
 - A. $\frac{4 \text{ km}}{1 \text{ hour}}$
 - B. $\frac{60 \text{ min}}{1 \text{ sec}}$
 - C. $\frac{1 \text{ week}}{7 \text{ days}}$
 - D. $\frac{1,000 \text{ cm}}{1 \text{ km}}$
- 4 Which of the following is not a conversion factor ?
 - A. $\frac{60 \text{ min}}{1 \text{ sec}}$
 - B. $\frac{1,000 \text{ m}}{1 \text{ km}}$
 - C. $\frac{1 \text{ L}}{1,000 \text{ mL}}$
 - D. $\frac{1 \text{ day}}{24 \text{ hours}}$
- 5 To convert from hr. to min. the conversion factor is _____
 - A. $\frac{1 \text{ hr.}}{60 \text{ min.}}$
 - B. $\frac{60 \text{ hr.}}{1 \text{ min.}}$
 - C. $\frac{60 \text{ min.}}{1 \text{ hr.}}$
 - D. $\frac{1 \text{ min.}}{60 \text{ hr.}}$
- 6 $\frac{1 \text{ m}}{100 \text{ cm}}$ is NOT a conversion factor.
 - A. 100 cm
 - B. 1,000 mm
 - C. 0.001 km
 - D. 60 min
- 7 $\frac{1 \text{ km}}{1,000 \text{ m}}$ is a conversion factor.
 - A. 2 hours
 - B. 100 cm
 - C. 1,000 km
 - D. 1,000 m
- 8 _____ is a conversion factor.
3600 sec.
 - A. 1 min
 - B. 1 sec
 - C. 1 hr.
 - D. 60 min.
- 9 150 km per 3 hr = _____ km per hr
 - A. 450
 - B. 200
 - C. 250
 - D. 50

Unit 10

Choose the correct answer

- 10 A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers _____ km per liter.
A. 10 B. 20 C. 5 D. 1
- 11 If 20 cups of flour uses to make 5 pizzas , then _____ pizza per a cup of flour.
A. 100 B. 4 C. $\frac{1}{5}$ D. $\frac{1}{4}$
- 12 Which of the following is the best price ?
A. 25 L.E. for 5 kg B. 6 kg for 36 L.E. C. $\frac{1}{3}$ kg per L.E. D. 4 L.E. per kg
- 13 From the opposite tape diagram,
the unit rate of the printer is _____ papers per min
-
- A. 250 B. 50
C. 10 D. 25
- 14 The unit rate from the opposite tape diagram
is _____
-
- A. 20 days per km B. 120 km per 6 days
C. 6 days per 120 km D. 20 km per day
- 15 0.25 kg = _____ gm
A. 25 B. 250 C. 2,500 D. 25,000
- 16 _____ gm = 30 kg
A. 0.03 B. 3,000 C. 300 D. 30,000
- 17 256 cm = _____ m
A. 25600 B. 25.6 C. 2560 D. 2.56
- 18 360 sec = _____ hour[s]
A. 60 B. 10 C. 3,600 D. 0.1
- 19 2.5 liters 205 millilitres
A. < B. = C. >

Unit 10

Choose the correct answer

- 20 3.5 cm 25 mm
A. > B. < C. =
- 21 $4.8 \text{ L} \times \frac{\quad}{\quad} = 4,800 \text{ mL}$
A. $\frac{100 \text{ mL}}{1 \text{ L}}$ B. $\frac{1,000 \text{ L}}{1 \text{ mL}}$ C. $\frac{1,000 \text{ mL}}{1 \text{ L}}$ D. $\frac{1 \text{ L}}{1,000 \text{ mL}}$
- 22 60 meters per hour = _____ meter(s) per min.
A. 3,600 B. 120 C. 360 D. 1
- 23 180 km per hour = _____ m per min.
A. 3 B. 30 C. 300 D. 3,000
- 24 120 m per min = _____ cm per sec.
A. 200 B. 720 C. 1,200 D. 12,000
- 25 Which value is NOT equivalent to 45 % ?
A. 0.45 B. $\frac{9}{20}$ C. $\frac{45}{100}$ D. 4.5
- 26 5 to 10 = _____ %
A. 50 B. 5 C. 0.5 D. 20
- 27 $1\frac{3}{5} = \text{_____ \%}$
A. 1.6 B. 60 C. 160 D. 16
- 28 $45 \% + 0.55 = \text{_____}$
A. 1 % B. 100 C. 1 D. 0.1
- 29 $1 - 25 \% = \text{_____}$
A. 75 B. 7.5 C. 0.75 D. 24
- 30 $1 - (20\% + 35\%) = \text{_____}$
A. 45 B. 4.5% C. $\frac{9}{20}$ D. 0.045

Unit 10

Choose the correct answer

- 31 If $\frac{x}{5} = 20\%$, then $x =$ _____
 A. 2 B. 1 C. 4 D. 5
- 32 If $\frac{x+1}{4} = 25\%$, then $x =$ _____
 A. 1 B. 2 C. 3 D. 0
- 33 65% of 44 44% of 65
 A. < B. > C. =
- 34 55% $\frac{2}{5}$
 A. < B. = C. >
- 35 $\frac{1}{8}$ 8%
 A. > B. < C. =
- 36 If the price of a ball is 120 L.E., then 10 % of its price is _____ L.E.
 A. 1.2 B. 12 C. 0.12 D. 0.012
- 37 If the price of a watch is 350 L.E., then 1 % of its price is _____ L.E.
 A. 3.5 B. 35 C. 0.35 D. 0.035
- 38 If the price of a shirt is 200 L.E., then $\frac{1}{2}$ % of its price = _____ L.E.
 A. 2 B. 10 C. 1 D. 0.5
- 39 2.5 % of 700 L.E. = _____ L.E.
 A. $\frac{2}{5}$ B. 70 C. 175 D. 17.5
- 40 30% of 50 kg. = _____ kg.
 A. 5 B. 10 C. 15 D. 20
- 41 45 % of a kilometre = _____ m
 A. 450 B. 4500 C. 45 D. 0.45

Unit 10

Choose the correct answer

- 42 20% of the students in a class are wearing black. There are 40 students in the class. How many students are wearing black ?
A. 4 B. 8 C. 12 D. 16
- 43 20% of pupils in the class = 5 pupils , then the total number of pupils in the class = _____
A. 20 B. 50 C. 100 D. 25
- 44 25% of a number = 120, then this number = _____
A. 30 B. 2.5 C. 480 D. 360
- 45 10 % of _____ kg = 12 kg
A. 1.2 B. 0.12 C. 120 D. 1,200
- 46 _____ % of 240 = 60
A. $\frac{1}{4}$ B. 0.25 C. 2.5 D. 25
- 47 If the percent of boys in a school is 52 % , then the percent of girls is _____ %
A. 52 B. 48 C. 0.48 D. 0.52
- 48 40 % of a number = _____ % of half of the same number.
A. 10 B. 20 C. 80 D. 100
- 49 25 % of 1000 = 50 % of _____
A. 2000 B. 1500 C. 1250 D. 500
- 50 If the price of a shirt is 280 L.E. before discount 10% then the discount is _____ L.E.
A. 2.8 B. 28 C. 252 D. 270
- 51 From the opposite table ,
the value of unknown = _____
A. 30 B. 480
C. 300 D. 120

Whole	Part	Percent
Unknown	120	40 %

Unit 10

Choose the correct answer

- 52 From the opposite tape diagram,

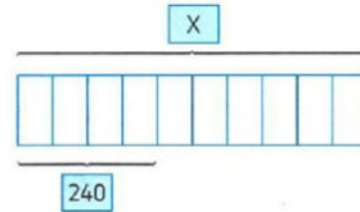
$x = \underline{\hspace{2cm}}$

A. 60

B. 240

C. 400

D. 600



- 53 From the opposite double number line

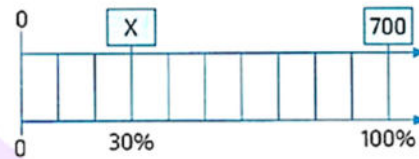
$x = \underline{\hspace{2cm}}$

A. 70

B. 140

C. 210

D. 420



- 54 From the opposite double number line,

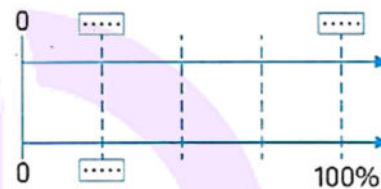
$25\% \text{ of } 80 = \underline{\hspace{2cm}}$

A. 25

B. 20

C. 40

D. 60



- 55 From the opposite figure :

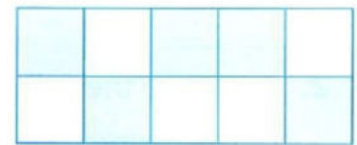
The percentage of the shaded part to whole figure = $\underline{\hspace{2cm}}$ %

A. 5

B. 0.5

C. 50

D. 10



- 56 From the opposite
- 10×10
- grid :

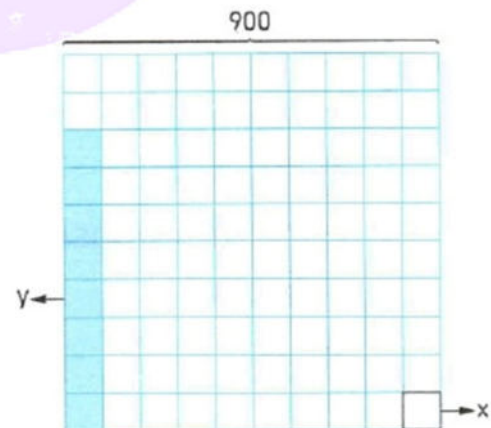
$y - x = \underline{\hspace{2cm}}$

A. 9

B. 54

C. 63

D. 72



Unit 10

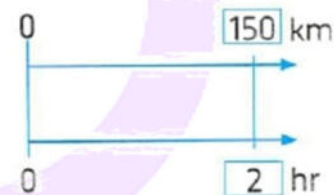
Complete the following

- 1 A car consumes 20 liters per 200 km , then its unit rate is _____ km per liter.
- 2 $2\frac{1}{4}$ days = _____ hours.
- 3 2.5 hr = _____ min
- 4 _____ kg = 20 grams.
- 5 $200\text{ m} \times \frac{\quad}{\quad} = 0.2\text{ km}$
- 6 10 L.E. for each kg, then _____ kg per L.E.
- 7 15 km per hr = _____ km per min
- 8 _____ km per hour = 10 meters per min
- 9 25 km per hour = _____ meters per hour.
- 10 60 meters per min = _____ meter[s] per sec.
- 11 48 kg per day = _____ kg per hour
- 12 $1.23 = \frac{\quad}{\quad} \%$
- 13 $20\% + 50\% = \frac{\quad}{\quad}$
- 14 $20\% + 40\% + 40\% = \frac{\quad}{\quad}$
- 15 $40\% + 0.42 = \frac{\quad}{\quad} \%$
- 16 $25\% \div \frac{1}{4} = \frac{\quad}{\quad} \%$
- 17 $35\% \div \frac{7}{20} = \frac{\quad}{\quad} \%$
- 18 $32\% = 1 - \frac{\quad}{\quad} \%$
- 19 $1 - (\frac{1}{2} + 30\%) = \frac{\quad}{\quad} \%$
- 20 $1 - (20\% + 35\%) = \frac{\quad}{\quad}$
- 21 $50\% + \frac{1}{2} = \frac{\quad}{\quad}$
- 22 $\frac{x}{4} = 25\%$, then $x = \frac{\quad}{\quad}$
- 23 $\frac{x+1}{10} = 30\%$
- 24 If $\frac{2}{x-1} = 50\%$, then $x = \frac{\quad}{\quad}$
- 25 _____ % of 600 L.E. = 120 L.E.
- 26 25 % of 1,000 = 50 % of _____

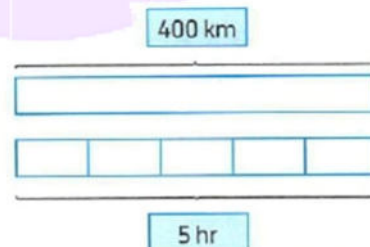
Unit 10

Complete the following

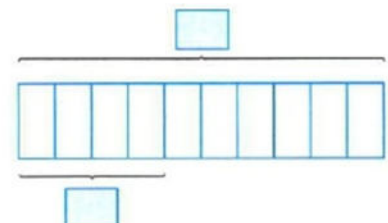
- 27 $33\frac{1}{3}\%$ of 60 = _____
- 28 5 % of 600 kg = _____ kg
- 29 45 % of one kilometer = _____ m
- 30 2.5 % of one kilogram = _____ grams.
- 31 $\frac{1}{2}\%$ of 1 kg = _____ gram
- 32 20% of _____ = 15
- 33 If the price of a T.V set is 18,000 L.E., then 1% of its price = _____ L.E.
- 34 A store offer a discount 20% on a shirt of price 400 L.E.,
then its price after discount = _____ L.E.
- 35 From the opposite double number line ,
the unit rate is _____



- 36 From the opposite tape diagram ,
the unit rate is _____



- 37 If 40% of a number is 140 find that number by using
the opposite tape diagram.



Unit 10

Answer the following

- 1 If the height of the Great Pyramid is approximately 14600 centimeters. About how many meters tall is the Great Pyramid ?
- 2 On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations.
- 3 Two machines produce cloth , the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?
- 4 Which is best to buy ?
1. 15 kg per 30 L.E. 2. 12.5 L.E. per 5 kg
- 5 A speed of a car is 2500 cm per sec. convert its speed to km per hr.
- 6 An employee saves L.E. 600 monthly. If his monthly income is L.E. 3,000 Find the percentage of what he saves monthly.
- 7 There are 250 pupils in a school , 15 pupils of them were absent one day. Find the percentage of absentees on that day.
- 8 The number of pupils in a school is 720. One day , 7.5 % of them were absent. Find the number of the present pupils that day.
- 9 In a maths exam, Yasser got 80% and Fayez got 45 marks out of 60 which of them has got a better score. What is the difference between their scores ?
- 10 Wael bought a flat for 360,000 L.E. , he paid 30% of its price. How much money did he pay ?
- 11 A man bought a T.V. set. He was given a 15 % discount of its marked price which was 8,500 L.E. Find its price after discount.

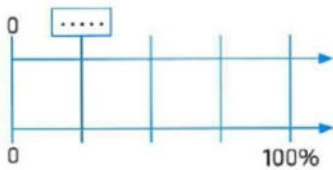
Unit 10

Answer the following

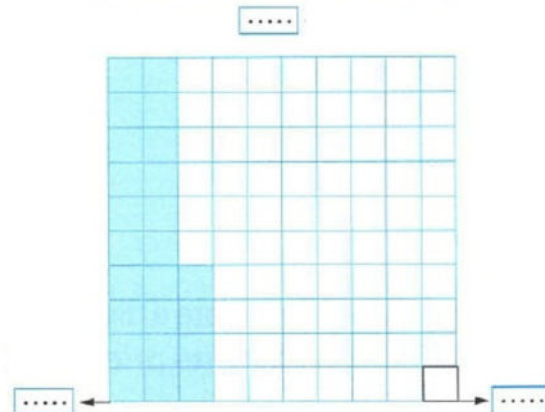
- 12 The price of a T.V. set is 16,000 L.E. and the sales tax on the T.V. set is 12 %
What is the price of the T.V set after adding the tax ?
- 13 A piece of cloth of 10 meters long , was put in water. It shrunk by 4 %
What is the length after shrinking ?
- 14 If a man deposited 20,000 pounds in a bank with interest 20 % per year.
Find the total amount which he gets at the end of one year.

- 15 Find the value of each of the following by using the given model.

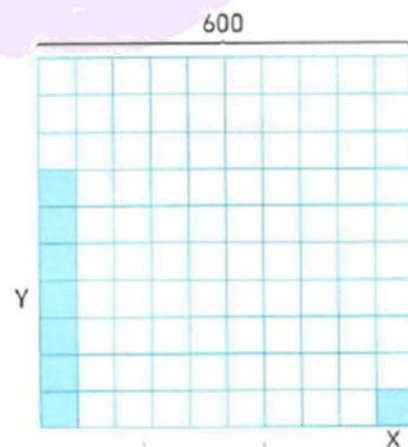
1. 25 % of 80



2. 24 % of a number is 72



- 16 From the opposite 10 × 10 grid ,
Find : X + Y



The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. D | 2. B | 3. C | 4. A | 5. C |
| 6. D | 7. D | 8. C | 9. D | 10. A |
| 11. D | 12. C | 13. C | 14. D | 15. B |
| 16. D | 17. D | 18. D | 19. C | 20. A |
| 21. C | 22. D | 23. D | 24. A | 25. D |
| 26. A | 27. C | 28. C | 29. C | 30. C |
| 31. B | 32. D | 33. C | 34. C | 35. A |
| 36. B | 37. A | 38. C | 39. D | 40. C |
| 41. A | 42. B | 43. D | 44. C | 45. C |
| 46. D | 47. B | 48. C | 49. D | 50. B |
| 51. C | 52. D | 53. C | 54. B | 55. C |
| 56. C | | | | |

Complete the following:

- | | | | |
|--------------------------------------|-------------------|---------|--------------|
| 1) 10 | 2) 54 | 3) 150 | 4) 0.02 |
| 5) $\frac{1\text{km}}{1000\text{m}}$ | 6) $\frac{1}{10}$ | 7) 0.25 | 8) 0.6 |
| 9) 25,000 | 10) 1 | 11) 2 | 12) 123 |
| 13) 70% = 0.7 | 14) 100% = 1 | 15) 82% | 16) 1 = 100% |

The Answers

Complete the following:

17) $1 = 100\%$

18) 68%

19) 20%

20) 0.45

21) 1

22) 1

23) 2

24) 5

25) 20%

26) 500

27) 20

28) 30

29) 450

30) 25

31) 5

32) 75

33) 180

34) 320

35) 75 per hr

36) 80 km per hr

37) $140 \div 4 = 35$

the number $= 35 \times 10 = 350$

Answer the following:

1) $14600 \div 100 = 146 \text{ meter}$

2) $20,000 \div 1000 = 20 \text{ L}$

3) unit rate of first machine $= 365 \div 5 = 73 \text{ m per hr}$

unit rate of first machine $= 480 \div 6 = 80 \text{ m per hr}$

the second is better

4) first $= 30 \div 15 = 2 \text{ LE per Kg}$

second $= 12.5 \div 5 = 2.5 \text{ LE per Kg}$

first is better

The Answers

$$5) \frac{2500 \text{ cm}}{1 \text{ sec}} \times \frac{1 \text{ k}}{100,000 \text{ cm}} \times \frac{3600 \text{ sec}}{1 \text{ hr}} = 90 \text{ km per hr}$$

$$6) \text{ the percentage of saving} = \frac{600}{3000} \times 100 = 20 \%$$

$$7) \text{ the percentage of absentees} = \frac{15}{250} \times 100 = 6\%$$

$$8) \text{ the number of absent} = 720 \times 7.5\% = 54 \text{ pupils}$$

$$\text{the number of present} = 720 - 54 = 666 \text{ pupils}$$

$$9) \text{ Yasser got } 60 \times 80\% = 48 \text{ marks}$$

$$\text{the better score is Yasser}$$

$$\text{the difference} = 48 - 45 = 3 \text{ marks}$$

$$10) \text{ he paid} = 360,000 \times 30\% = 108,000 \text{ LE}$$

$$11) \text{ the discount} = 8,500 \times 15\% = 1275 \text{ LE}$$

$$\text{the price after discount} = 8,500 - 1,275 = 7,225 \text{ LE}$$

$$12) \text{ the tax} = 16,000 \times 12\% = 1,920 \text{ LE}$$

$$\text{the price after tax} = 16,000 + 1,920 = 17,920 \text{ LE}$$

$$13) \text{ the shrinking} = 10 \times 4\% = 0.4 \text{ m}$$

$$\text{the length after shrinking} = 10 - 0.4 = 9.6 \text{ m}$$

The Answers

14) the interest = $20,000 \times 20\% = 4000$ LE

the total = $20,000 + 4,000 = 24,000$ LE

15) 1. part = 20

2. the part = 72

one part = $72 \div 24 = 3$

the total = $3 \times 100 = 300$

16) $X = 6$, $Y = 6 \times 7 = 42$

$X + Y = 6 + 42 = 48$

شرح خطوات الحل على قناة



Math For Kids: Hoda Ismail

Choose the correct answer

Units 11, 12, 13

- 1 The horizontal line in the coordinate plane is called _____.
A. x-axis. B. y-axis. C. origin point.
- 2 The vertical number line on a coordinate plane is called _____.
A. x-axis. B. y-axis. C. origin point.
- 3 The point of intersection of x-axis and y-axis is called _____.
A. x-axis. B. y-axis. C. origin point.
- 4 The origin point is _____.
A. (1, 0) B. (0, 1) C. (0, 0) D. (1, 1)
- 5 The y-coordinate in the ordered pair (1, 8) is _____.
A. 1 B. 8 C. 1 + 8 D. 8 - 1
- 6 Which of the following points located on y-axis?
A. (1, 0) B. (0, 1) C. (1, 1) D. (7, 0)
- 7 The X-coordinate in ordered pair (3, 2) is _____.
A. 3 B. 2 C. 5 D. 6
- 8 The point _____ lies on X-axis.
A. (0, 5) B. (1, 5) C. (5, 1) D. (5, 0)
- 9 The point _____ lies in the 1st quadrant.
A. (2, 3) B. (-1, 2) C. (4, -3) D. (-6, -2)
- 10 The point $(1, -1\frac{1}{2})$ lies in the _____ quadrant.
A. first B. second C. third D. fourth
- 11 The point _____ lies in the second quadrant.
A. (2, 2) B. (-2, 2) C. (2, -2) D. (-2, -2)

Choose the correct answer

Units 11, 12, 13

- 12 The point $(-2, -3)$ lies in the _____ quadrant.
 A. first B. second C. third D. fourth
- 13 Which point is the closest to the x-axis ?
 A. $(2, 5)$ B. $(7, 6)$ C. $(1, 4)$ D. $(0, 2)$
- 14 Which point is the closest to the y-axis ?
 A. $(3, 1)$ B. $(2, 5)$ C. $(1, 7)$ D. $(6, 2)$
- 15 The point which is plotted 5 units to the left of the origin point and 2 units up is _____
 A. $(5, 2)$ B. $(-5, -2)$ C. $(-5, 2)$ D. $(2, -5)$
- 16 The point which is plotted 6 units to the right of the origin point and 2 units down is _____
 A. $(2, 6)$ B. $(6, -2)$ C. $(6, 2)$ D. $(-2, 6)$
- 17 Moving the point $(-1, 3)$ 2 units to the left and 4 units down, then the new point is _____
 A. $(-3, -1)$ B. $(1, 7)$ C. $(1, -1)$ D. $(3, 7)$
- 18 Moving the point $(3, 4)$ 3 units to the right and 5 units down, then the end point is _____
 A. $(0, 9)$ B. $(6, -1)$ C. $(0, -1)$ D. $(6, 9)$
- 19 The image of the point $(-2, -5)$ by reflection across the x-axis is the point _____
 A. $(-2, 5)$ B. $(2, 5)$ C. $(2, -5)$ D. $(-2, -5)$
- 20 The image of the point $(-3, -5)$ by reflection across the y-axis is the point _____
 A. $(-3, 5)$ B. $(3, 5)$ C. $(3, -5)$ D. $(-5, 3)$
- 21 The image of the point $(3, 0)$ by reflection across x-axis is _____
 A. $(-3, 0)$ B. $(0, -3)$ C. $(3, 0)$ D. $(0, 3)$

Choose the correct answer

Units 11, 12, 13

- 22 Laila plotted a point on a coordinate plane to represent the ordered pair $(7, 4)$. Which statement is true about the x-coordinate in the ordered pair?

A. The x-coordinate is 7 units up from the x-axis.
 B. The x-coordinate is 7 units to the right of the y-axis.
 C. The x-coordinate is 4 units below the x-axis
 D. The x-coordinate is 4 units to the right of the y-axis

- 23 What is the distance between the points $(4, -7)$ and $(-5, -7)$?

A. 1 unit B. 3 units C. 7 units D. 9 units

- 24 What is the distance between the points $(-2, -1)$ and $(-2, -3)$?

A. 1 unit B. 3 units C. 4 units D. 2 units

- 25 The distance between the point $(-4, -3)$ and its image by reflection across the y-axis is _____ units.

A. 8 B. 6 C. 14 D. 7

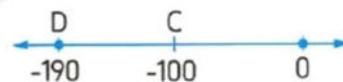
- 26 The distance between A and B is _____ units.

A. 7 B. 1 C. 9 D. 5



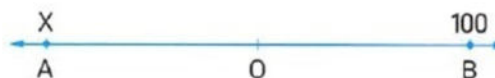
- 27 In the opposite figure, the distance between the two points C and D is _____ units.

A. 90 B. 290 C. 100 D. 190



- 28 If the distance between A and B is 200, then $x =$ _____

A. 100 B. -100 C. -200 D. 200



- 29 Which of the following values could be the y-coordinate of the point $(10, \text{_____})$ that is 13 units from $(10, 6)$?

A. 17 B. 3 C. -1 D. -7

Units 11, 12, 13

Choose the correct answer

- 30 If A (1, 3) and C (4, 1) and $\overline{AB} \perp \overline{BC}$, then the point B is _____
 A. (1, 4) B. (3, 1) C. (4, 2) D. (1, 1)
- 31 If the two points A (6, 1) and B (3, 1) are two vertices in a right triangle ABC, then the point C could be _____
 A. (4, -1) B. (3, -1) C. (5, -1) D. (4, 1)
- 32 Plot the points O (0, 0), A (3, 0), B (3, 4), C (0, 4) and draw $\overline{OA}$, $\overline{AB}$, $\overline{BC}$ and $\overline{CO}$, which figure is obtained?
 A. Square B. Rectangle C. Trapezium D. Rhombus
- 33 Area of a parallelogram = _____
 A. $\frac{1}{2} \times b \times h$ B. $b \times h$ C. $2 \times b \times h$ D. $\frac{b \times h}{4}$
- 34 The two bases of a parallelogram are 9 cm, 5 cm and the greater height is 6 cm, then area = _____ cm^2
 A. 30 B. 54 C. 45 D. 24
- 35 The two bases of a parallelogram are 8 cm, 6 cm and the smaller height is 5 cm, then area = _____ cm^2
 A. 30 B. 40 C. 48 D. 24
- 36 A parallelogram with area 48 cm^2 and base length 6 cm, then its corresponding height is _____ cm
 A. 9 B. 8 C. 7 D. 8.5
- 37 If the area of the parallelogram is 56 cm^2 and its height is 7 cm, then its base length = _____ cm
 A. 63 B. 49 C. 8 D. 6
- 38 The two bases of a parallelogram are 5 cm, 4 cm and the smaller height is 8 cm, then the greater height = _____ cm
 A. 32 B. 9 C. 10 D. 40

Choose the correct answer

Units 11, 12, 13

- 39 The area of the rhombus of side length 7 cm and height 4 cm is _____ cm^2
 A. $7 + 4$ B. $(7 + 4) \times 2$ C. 7×4 D. $(7 \div 4) \times 2$
- 40 The area of the rhombus whose perimeter 40 cm and height 8 cm is _____ cm^2
 A. 80 B. 48 C. 320 D. 32
- 41 If the height of a rhombus is 5 cm and it's area is 35 cm^2 , then it's side length is _____ cm
 A. 7 B. 30 C. 40 D. 3.5
- 42 If the area of rhombus is 55 cm^2 and its side length is 11 cm, then its height = _____ cm
 A. 5 B. 44 C. 66 D. 5.5
- 43 A rhombus of side length 14 cm and the ratio between its height and its side length is 5 : 7, then the area of the rhombus is _____ cm^2
 A. 35 B. 70 C. 100 D. 140
- 44 The area of the triangle equal All except _____
 A. $\frac{1}{2} \times b \times h$ B. $\frac{b \times h}{2}$ C. $\frac{b}{2} \times h$ D. $2 \times b \times h$
- 45 If ABC is a right-angled triangle at B, and $BC = 10 \text{ cm}$, $AB = 8 \text{ cm}$, then its area = _____ cm^2
 A. 40 B. 80 C. 18 D. 9
- 46 If the perimeter of an equilateral triangle is 18 cm and its height is 7 cm, then its area = _____ cm^2
 A. 42 B. 21 C. 126 D. 25
- 47 the area of a triangle is 30 m^2 and its base length is 5 m, then its corresponding height = _____ m
 A. 35 B. 6 C. 12 D. 25

Choose the correct answer

Units 11, 12, 13

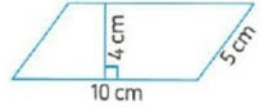
- 48 The area of the opposite parallelogram = _____ cm^2

A. 50

B. 40

C. 20

D. 30



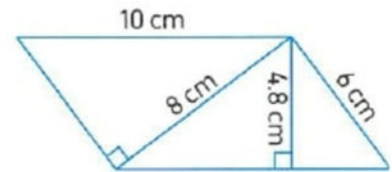
- 49 Which of the following equations represents the area of the opposite parallelogram ?

A. $8 \times 6 = 48 \text{ cm}^2$

C. $8 \times 4.8 = 38.4 \text{ cm}^2$

B. $6 \times 4.8 = 28.8 \text{ cm}^2$

D. $8 \times 10 = 80 \text{ cm}^2$



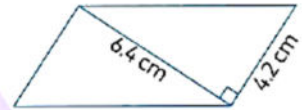
- 50 The area of the opposite parallelogram $\approx$ _____ [to nearest whole number]

A. 26 cm^2

B. 26.88 cm^2

C. 27 cm^2

D. 26.9 cm^2



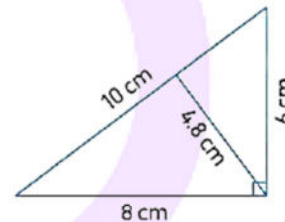
- 51 Which expression represents the area of the drawn triangle ?

A. $\frac{1}{2} \times 6 \times 10$

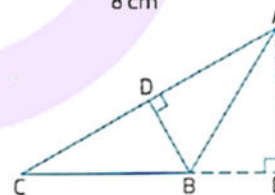
B. $\frac{1}{2} \times 4.8 \times 8$

C. $\frac{1}{2} \times 6 \times 8$

D. $\frac{1}{2} \times 8 \times 10$



- 52 The corresponding height of the base $\overline{BC}$ is _____

A. $\overline{BD}$ B. $\overline{AE}$ C. $\overline{BE}$ D. $\overline{AB}$ 

- 53 In the opposite figure :

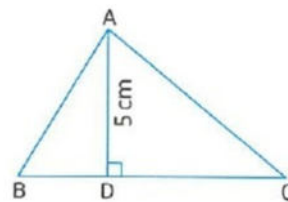
ABC is a triangle in which, $\overline{AD} \perp \overline{BC}$
 $\overline{AD} = 5 \text{ cm}$, area of $\triangle ABC = 15 \text{ cm}^2$
 then $BC =$ _____ cm

A. 3

B. 6

C. 9

D. 12



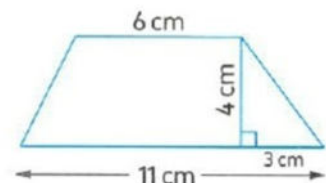
- 54 The area of the opposite trapezium = _____ cm^2

A. 30

B. 34

C. 40

D. 55



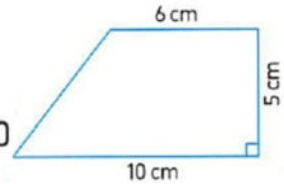
Choose the correct answer

Units 11, 12, 13

- 55 The area of the opposite trapezium = _____ cm^2

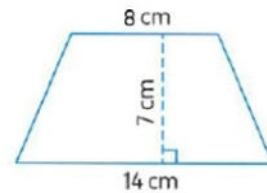
A. 40 B. 50 C. 80

D. 110



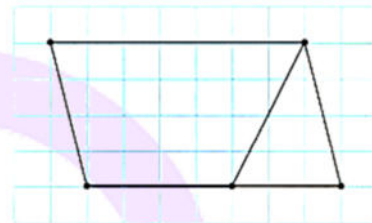
- 56 The area of the opposite trapezium = _____ cm^2

A. 56 B. 77
C. 98 D. 38.5



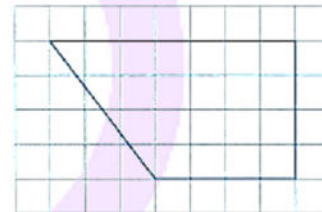
- 57 Which of the following expressions does represent the area of the colored trapezium ?

A. $\frac{1}{2} \times 7 \times 4$ B. $[7 \times 4] + [\frac{1}{2} \times 3 \times 4]$
C. $[7 \times 4] - [\frac{1}{2} \times 3 \times 4]$ D. $[7 \times 4] - [3 \times 4]$



- 58 The area of the opposite trapezium = _____ square units.

A. $28 - 6$ B. $28 + 6$
C. $16 + 12$ D. $16 - 12$



- 59 The volume of the cuboid = _____

A. $l + w + h$ B. $2lwh$ C. lwh D. $\frac{lwh}{2}$

- 60 The volume of a cuboid whose length 9 cm, width 5 cm and height 8 cm is _____ cm^3

A. 360 B. 157 C. 314 D. 626

- 61 Which of the following estimations is suitable for the volume of a cuboid whose dimensions are 7.5 cm, 6.5 cm and 4.5 cm ?

A. 100 cm^3 B. 160 cm^3 C. 280 cm^3 D. 400 cm^3

- 62 The volume of a cuboid of a square base of side length 14.2 cm and height $6\frac{1}{2}$ cm is _____ cm^3

A. 553.8 B. 806.56 C. 1,209.84 D. 1,310.66

Choose the correct answer

Units 11, 12, 13

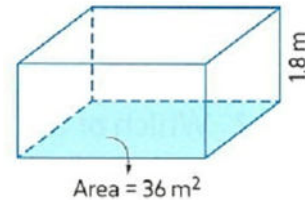
- 63 The volume of a cuboid of the base area 38.14 cm^2 and height 7.3 cm is _____ cm^3
 A. 422.278 B. 278.422 C. 278.224 D. 422.872
- 64 If the volume of a cuboid is 646.94 cm^3 and one of its dimensions is doubled, then the new volume is _____ cm^3
 A. 323.49 B. 1,293.88 C. 1,940.92 D. 646.94
- 65 If the three dimensions of a cuboid are doubled, then the ratio between the new volume to the original volume of the cuboid is
 A. 8:1 B. 1:8 C. 4:1 D. 1:4
- 66 If the height of a cuboid is divided in half, then the ratio between the new volume to the original volume is _____
 A. 2:1 B. 4:2 C. 1:2 D. 2:3
- 67 The surface area of a cube = _____
 A. $S \times S \times S$ B. $6 \times S^2$ C. $6 \times (S + S)$ D. $(S \times S) + 6$
- 68 The surface area of a cube whose side length 6 cm is _____ cm^2
 A. 36 B. 96 C. 216 D. 18
- 69 The surface area of a cube of side length 3.2 m is _____ m^2
 A. 61.44 B. 32.768 C. 40.96 D. 10.24
- 70 The surface area of the rectangular prism is _____
 A. $l + w + h$ B. $l \times w \times h$ C. $2l + 2w + 2h$ D. $2 \times (lw + lh + wh)$
- 71 The surface area of a rectangular prism of length 9 cm , width 4 cm and height 8 cm is _____ cm^2
 A. 280 B. 140 C. 42 D. 576
- 72 The surface area of a square pyramid, if the side length 8 cm and the height of the triangular face 9 cm is _____ cm^2
 A. 208 B. 352 C. 136 D. 100

Choose the correct answer

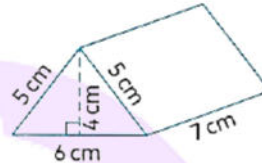
Units 11, 12, 13

- 73 A square pyramid, its base perimeter is 36 cm and the area of one of its triangular faces is $29\frac{3}{4} \text{ cm}^2$, then its surface area is _____ cm^2
- A. 100 B. 200 C. 300 D. 400

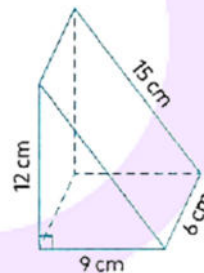
- 74 The volume of the opposite cuboid is _____ m^3
- A. 96 B. 64.8
C. 75.24 D. 58.8



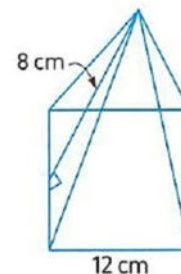
- 75 The surface area of the opposite triangular prism is _____ m^2
- A. 24 B. 112
C. 136 D. 163



- 76 The surface area of the opposite triangular prism is _____ cm^2
- A. 324 B. 234
C. 810 D. 648



- 77 The surface area of the opposite square-based pyramid is _____ cm^2
- A. 360 B. 336
C. 528 D. 240



Units 11, 12, 13

Complete the following

- 1 In the point $(5, 2)$, the y-coordinate is _____
- 2 The point $(-3, -4)$ lies in the _____ quadrant
- 3 The point $(2, -3)$ lies in the _____ quadrant.
- 4 The point $(4, 3)$ lies in the _____ quadrant.
- 5 The point $(-2\frac{1}{4}, 0)$ lies on the _____ -axis.
- 6 The point $(5, 8)$ is located _____ units from the y-axis.
- 7 If point S $(2, 6)$ and point Q $(5, 9)$, then point _____ is closer to the x-axis.
- 8 A point is located 3 units to the right of the origin point and 2 units up, then the point is (_____, _____)
- 9 If the point $(2, 5)$ is moved 6 units to the left and 3 units up, then the new point is _____
- 10 The point $(4, 7)$ by reflection across the x-axis is the point _____
- 11 The image of the point $(3, 1)$ by reflection across the y-axis is the point _____
- 12 The point $(0, -4)$ is the image of itself by reflection across _____ -axis
- 13 The image of the point (_____, _____) by reflection across y-axis is $(0, 5)$
- 14 If the point $(-1, 4)$ is the image of the point (a, b) by reflection in the y-axis, then $a + b =$ _____
- 15 The distance between the two points $(3, -4)$ and $(3, 7)$ is _____ units.
- 16 The distance between the point $(0, -4)$ and the origin $O =$ _____ units
- 17 The distance between the point $(1, 2)$ and its image by reflection across x-axis = _____ units.

Complete the following

Units 11, 12, 13

- 18 The distance between A (2 , y) and B (2 , - 1) is 6 units and the point A lies in first quadrant , then y = _____
- 19 The figure with the vertices A (- 3 , 2) , B (- 7 , - 3) , C (6 , - 3) and D (2 , 2) is called _____
- 20 If the two points A (- 2 , 2) and B (3 , a) are on the same horizontal line in the coordinate plane, then a = _____
- 21 A square of side length 2.5 cm , then its area = _____ cm^2
- 22 A gift box in the shape of a cube of side length 30 cm, then its surface area is _____ cm^2
- 23 The perimeter of one face of a cube is 28 cm, then the surface area of the cube is _____ cm^2
- 24 The surface area of a cube is 150 m^2 , then its side length is _____ m
- 25 The volume of a cuboid, if all its dimensions are equal and each one equals 15 cm is _____ cm^3
- 26 A cuboid of a square shaped base of side length 15 cm and height 8 cm , then its volume is _____ cm^3
- 27 If the volume of a cuboid is 240 cm^3 and all the dimensions are doubled , then the new volume is _____ cm^3
- 28 If two dimensions in a cuboid are tripled , then the ratio between the original volume and the new volume is _____
- 29 If the length of a cuboid is divided in half, then the ratio between the new volume to the original volume of the cuboid in the simplest form is _____
- 30 A triangle is of base length 5 cm and its corresponding height is 2 cm more than it. , then **the area of the triangle** is _____

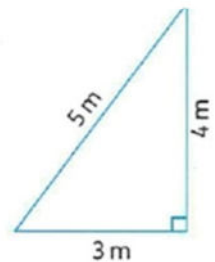
Units 11, 12, 13

Complete the following

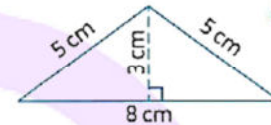
- 31 The surface area of the square pyramid in which the side length of its squared base is 8 cm, and the height of one of its triangular faces is 6 cm is _____

- 32 A square-based pyramid, the perimeter of its base 24.4 cm. and the area of each triangular face is 30.5 cm^2 , then its surface area is _____ cm^2

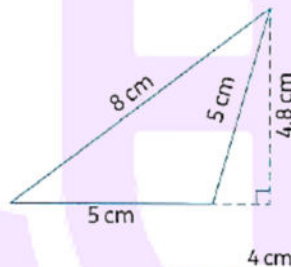
- 33 The area of the opposite triangle = _____ m^2



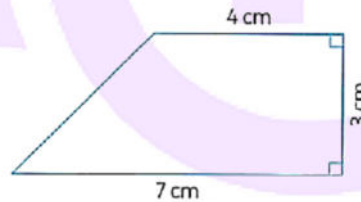
- 34 The area of the opposite triangle = _____ cm^2



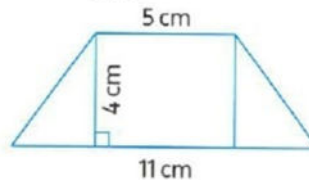
- 35 The area of the opposite triangle = _____



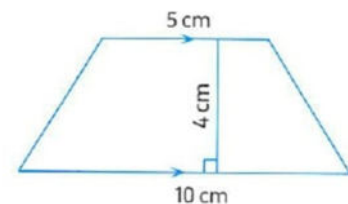
- 36 The area of opposite trapezium = _____ cm^2



- 37 The area of the opposite trapezium = _____ cm^2



- 38 The area of the opposite trapezium equals _____ cm^2



- 39 The triangular prism has _____ rectangular faces.

Units 11, 12, 13

Answer the following

- 1 Which one is greater in area ?

A parallelogram whose base length is 12 cm and its corresponding height is 10 cm or a rectangle whose dimensions are 14 cm and 8 cm.

- 2 Which one is greater in area ?

A triangle with base length 8 cm and it's corresponding height 3.4 cm or a rhombus of side length 10 cm and a height 2.5 cm.

- 3 Which one is greater in area ?

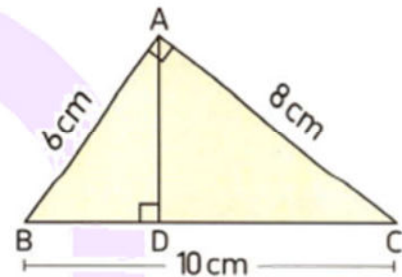
A square-based pyramid , if the side length of the base 12 cm and the height of the triangular face is 8 cm or a rectangular prism of length 6 cm , width 8 cm and height 11 cm

- 4 In the opposite figure :

ABC is a right-angled triangle at A

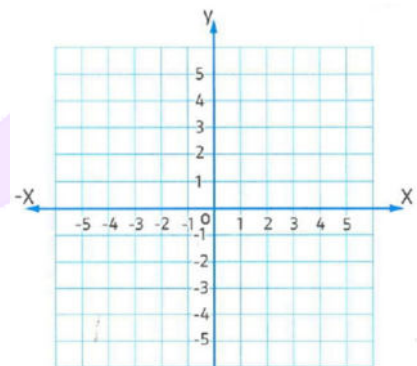
, $\overline{AD} \perp \overline{BC}$, $AB = 6$ cm, $AC = 8$ cm and $BC = 10$ cm

Find the area of $\triangle ABC$ and the length of $\overline{AD}$

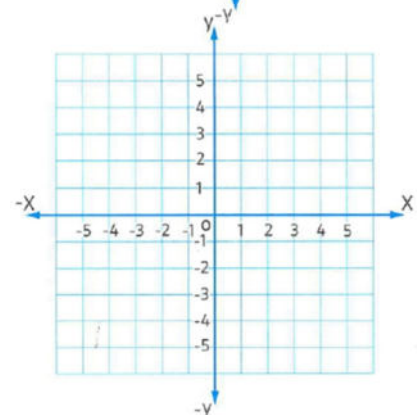


- 5 Plot the points A (3 , 4) , B (1 , 1) , C (0 , 4)

Join them and find the image of each one by reflection across the y-axis



- 6 Plot the points A (1 , 1) , B (− 4 , 1) and C (− 4 , − 4) , then find the point D which makes ABCD is a square. then find the distance between A and B



The Answers

Choose the correct answer:

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. A | 2. B | 3. C | 4. C | 5. B |
| 6. B | 7. A | 8. D | 9. A | 10. D |
| 11. B | 12. C | 13. D | 14. C | 15. C |
| 16. B | 17. A | 18. B | 19. A | 20. C |
| 21. C | 22. B | 23. D | 24. D | 25. A |
| 26. C | 27. A | 28. B | 29. D | 30. D |
| 31. B | 32. B | 33. B | 34. A | 35. B |
| 36. B | 37. C | 38. C | 39. C | 40. A |
| 41. A | 42. A | 43. D | 44. D | 45. A |
| 46. B | 47. C | 48. B | 49. A | 50. C |
| 51. C | 52. B | 53. B | 54. B | 55. A |
| 56. B | 57. C | 58. A | 59. C | 60. A |
| 61. C | 62. D | 63. B | 64. B | 65. A |
| 66. C | 67. B | 68. C | 69. A | 70. D |
| 71. A | 72. A | 73. B | 74. B | 75. C |
| 76. A | 77. B | | | |

Complete the following:

- | | | | |
|-----------|----------|-----------|-----------|
| 1) 2 | 2) third | 3) fourth | 4) first |
| 5) X-axis | 6) 5 | 7) (2,6) | 8) (3,2) |

The Answers

Complete the following:

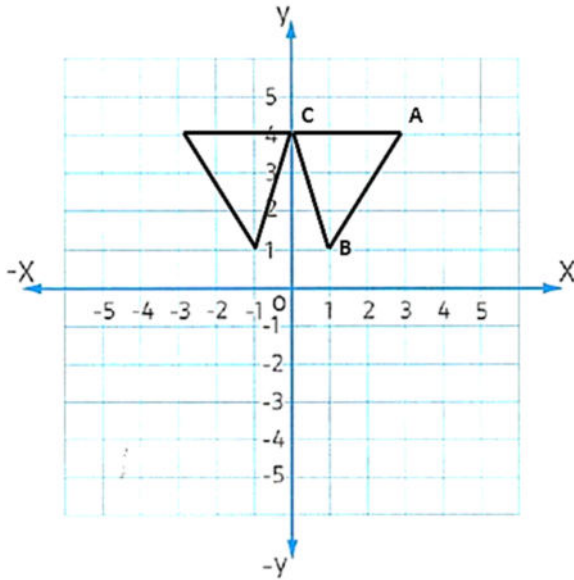
- | | | | |
|------------------|-------------|-------------------|------------|
| 9) (-4,8) | 10) (4,-7) | 11) (-3,1) | 12) Y-axis |
| 13) (0,5) | 14) $1+4=5$ | 15) $ -4 + 7 =11$ | 16) 4 |
| 17) $ 2 + -2 =4$ | 18) 5 | 19) trapezium | |
| 20) 2 | 21) 6.25 | 22) 5400 | 23) 294 |
| 24) 5 | 25) 3375 | 26) 1800 | 27) 1920 |
| 28) 1:9 | 29) 1:2 | 30) 17.5 | 31) 160 |
| 32) 159.21 | 33) 6 | 34) 12 | 35) 12 |
| 36) 16.5 | 37) 32 | 38) 30 | 39) 3 |

Answer the following:

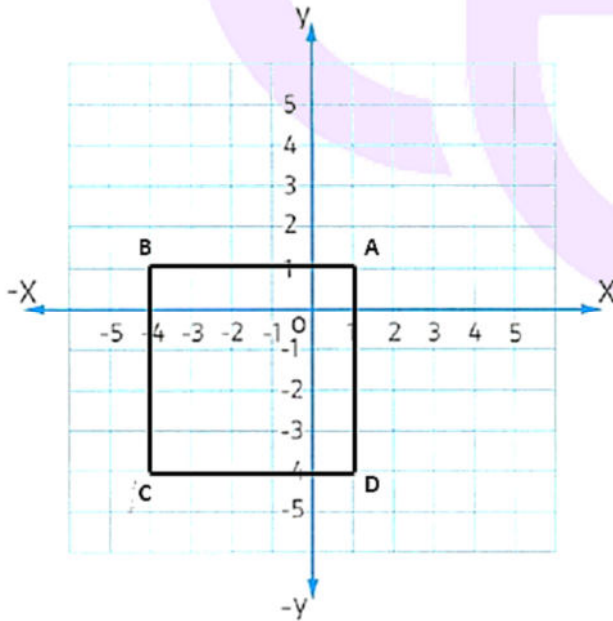
- 1) area of parallelogram = $b \times h = 12 \times 10 = 120 \text{ cm}^2$
 area of rectangle = $L \times W = 14 \times 8 = 112 \text{ cm}^2$
 parallelogram is greater
- 2) area of triangle = $\frac{1}{2} \times b \times h = 4 \times 3.4 = 13.6 \text{ cm}^2$
 area of rhombus = $s \times h = 10 \times 2.5 = 25 \text{ cm}^2$
 rhombus is greater
- 3) area of pyramid = $(12 \times 12) + (4 \times \frac{1}{2} \times 12 \times 8) = 336 \text{ cm}^2$
 area of rectangular prism = $2 \times (6 \times 8 + 6 \times 11 + 8 \times 11) = 404 \text{ cm}^2$
 rectangular prism is greater
- 4) area of triangle = $\frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$
 length of AD = $24 \times 2 \div 10 = 4.8 \text{ cm}$

The Answers

5)



6) the distance between A and B = 5 units



شرح خطوات الحل على قناة



Math For Kids: Hoda Ismail

حمل الآن

مجاناً وحصرياً

المراجعة رقم (6)

اختبار شهر ابريل



Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is not a unit rate ?

- a) 140 L.E.weekly b) 90 km per 60 minutes c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 d) 180

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

- a) 1 b) 5 c) 10 d) 20

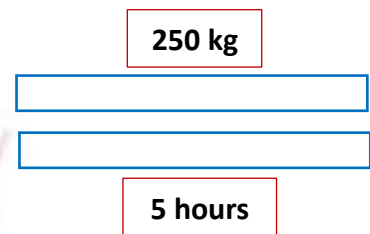
4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.				200

- a) 40 , 80 , 120 b) 50 , 100 , 150 c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is

- a) 250 km per 5 hours b) 50 km per hour
c) 55 km per hour d) 100 km per 2 hours



6) By using the opposite double number Line , the unit rate is

- a) 60 kg per day b) 30 kg per day c) 60 kg per 2 days d) 100 kg per 3 days



7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ c) $\frac{7days}{1week}$ d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year c) 1000 mm = 1 liter d) $\frac{1min}{60sec}$

9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

- a) 12000 b) 200 c) 720 d) 1200

12) 3.6 L $\times$ = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

- a) 60 b) 10 c) 3600 d) 0.1

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L $\times \frac{\dots}{\dots} = 4800 \text{ ml}$

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

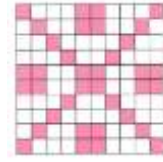
19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60

20) $3 : 10 = \dots\dots\dots \%$

- a) 30 b) 12 c) 25 d) 36

21) The opposite shaded area represents each of the following except



- a) 36 b) 0.36 c) 36% d) $\frac{9}{25}$

22) 50% of a number =

- a) the whole number b) half of a number c) third of a number d) quarter of number

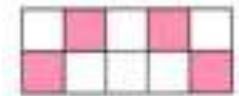
23) Which value is NOT equivalent to 55% ?

- a) $\frac{11}{20}$ b) $\frac{55}{100}$ c) 0.55 d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

- a) 25 b) 125 c) 75 d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



- a) 0.4 b) 40 c) 4 d) 60

26) $1 - 25\% = \dots\dots\dots$

- a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

- a) 62 b) 42 c) 48 d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

- a) exactly b) less than c) more than d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

- a) 24 b) 12 c) 18 d) 6



30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 d) 300

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5 b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 b) 1 c) 4 d) 5

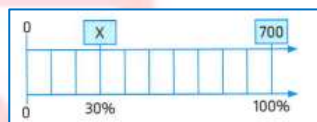
33) 40% of a number = % of half of the same number.

- a) 20 b) 10 c) 80 d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

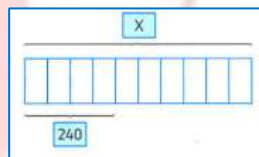
- a) 20 b) 200 c) 400 d) 2000

35) From the opposite double number
line $X =$



- a) 70 b) 210 c) 140 d) 420

36) From the opposite diagram
 $X =$



- a) 600 b) 400 c) 240 d) 2400

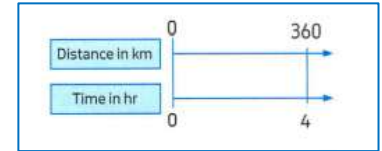
37) 25% of 1000 = 50% of

- a) 2000 b) 1500 c) 1250 d) 500

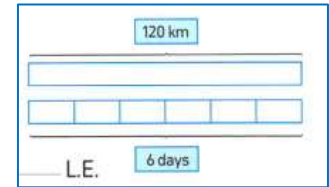


Q2 / Complete the following :-

1) From the opposite double number line , the unit rate is



2) The unit rate from the opposite tape diagram is



3) gm = 30 kg

4) 1,500 kg = gm.

5) 2.5 hr = min.

6) 60 meters per min = meter(s) per sec.

7) 54 L.E. for 9 kg , then the cost of 6 kg is

8) 48 km per hr = meter per min

9) 120 km per hour = meter per min.

10) The percentage is a ratio

11) $36\% + 24\% - 17\% = \dots\dots\dots$

12) $12\% - 4\% = \dots\dots\dots$

13) $1 - (39\% + 0.21) = \dots\dots\dots \%$

14) $1 - \frac{3}{4} = \dots\dots\dots \%$

15) $\frac{7}{3} \times \frac{3}{7} = \dots\dots\dots \%$

16) $15\% - 0.15 = \dots\dots\dots$

17) $225\% - 1\frac{1}{4} = \dots\dots\dots$

18) $0.35 + \frac{9}{20} = \dots\dots\dots \%$

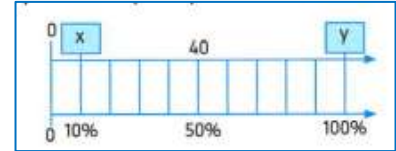
19) $15\% + 0.35 + \frac{1}{2} = \dots\dots\dots \%$

20) $35\% \div \frac{7}{20} = \dots\dots\dots \%$

21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then x =

22) 10 % of 50 kg = kg.

- 23) A store offers a discount 10% off on a shirt of price 300 L.E. ,then the discount = L.E.
- 24) $32\% = 1 - \dots\dots\dots \%$
- 25) If the price of a ball is 120 L.E. then 10% of its price is L.E.
- 26) $25\% \text{ of } 1,000 = 50\% \text{ of } \dots\dots\dots$
- 27) From the opposite double number line , the value of $x + y = \dots\dots\dots$
- 28) $15\% \text{ of } 240 \text{ kg} = \dots\dots\dots \text{ kg}$
- 29) $2 \text{ to } 5 = \dots\dots\dots \%$
- 30) % of 600 L.E. = 120 L.E.
- 31) $20\% \text{ of a number} = \dots\dots\dots \% \text{ of half of the same number.}$
- 32) $45\% \text{ of a kilometer} = \dots\dots\dots \text{ m}$



Q3 / Answer the following :-

- 1) Which is the longest 1.34 m or 200 cm ?**
- 2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?**
- 3) Is (490 pounds per 7 kg of apples) a unit rate or not?**
- 4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?**
- 5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations**
- 6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?**
- 7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?**

- 8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?
- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.
- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount
- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?
- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?
- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?
- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?

15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?

16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

17) Find the value of X

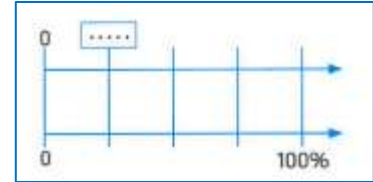
a) $\frac{x}{8} = \frac{10}{20}$

b) $\frac{x+1}{10} = 30\%$

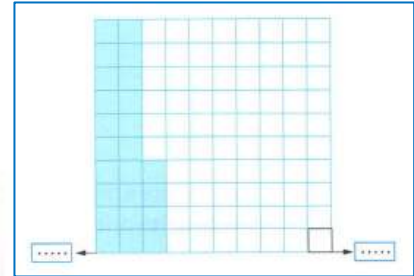
c) $\frac{2}{x+8} = 5\%$

18) Find the value of each of the following by using the given model .

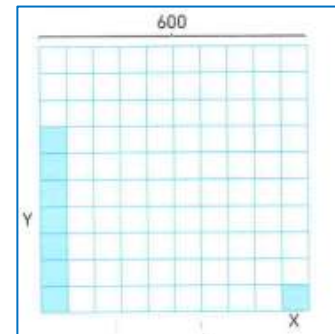
a) 25% of 80



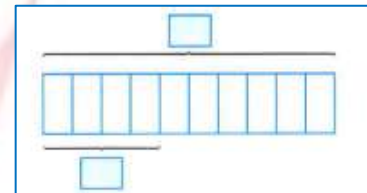
b) 24% of a number is 72



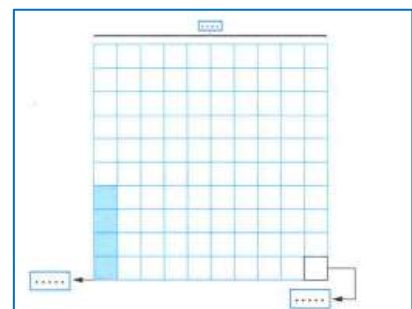
19) From the opposite 10 × 10 grid , Find: X + Y



20) If 40% of a number is 140 find , that number by using the opposite tape diagram .



21) Find the value of 4% of 200 by using the opposite 10 × 10 grid.



- 22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question:

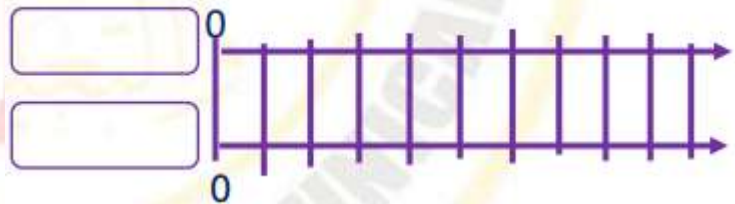
The total	The part	Percentage
.....		

- 23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
.....		

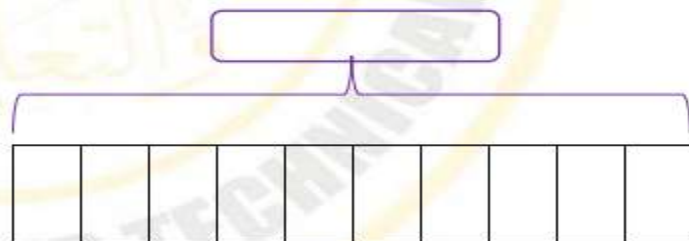
- 24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday.

Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



- 25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday.

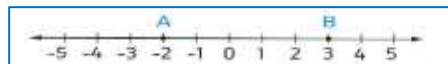
Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



Unit 11

Q1 Choose the correct answer :-

- 1) point both of whose coordinates are negative will Lie in
- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant
- 2) If the y-coordinate of a point is zero, then this point always lies
- a) 1st quadrant b) 2nd quadrant c) on Y-axis d) on X-axis
- 3) point (0 , -7) lie on
- a) 1st quadrant b) 4th quadrant c) on Y-axis d) on X-axis
- 4) point (-3 , 4) lie on
- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant
- 5) If the x-coordinate of a point is zero, then this point Lies
- a) 1st quadrant b) 2nd quadrant c) on Y-axis d) on X-axis
- 6) Which point lies in the third quadrant ?
- a) (0 , -5) b) (5 , -11) c) (-5 , 0) d) (-5 , -11)
- 7) Which of the following points lies on the y-axis ?
- a) (-1 , 0) b) (0 , -1) c) (5 , 0) d) (3 , 3)
- 8) The points (-5 , 2) and (2 , -5) tie in the
- a) 2nd and 4th quadrants, respectively b) Same quadrant
- c) 2nd and 3rd quadrants, respectively d) 4th nd and 3rd quadrants, respectively
- 9) The image of the point (2 , -5) by reflection across the x-axis is the point
- a) (2 , -5) b) (-2 , 5) c) (2 , 5) d) (-2 , -5)
- 10) The image of the point (4 , 0) by reflection across the y-axis is the point
- a) (-4 , 0) b) (0 , -4) c) (4 , 0) d) (0 , 4)
- 11) If the point A (- 2 , 3) moved 2 units to the right then 3 units downward, then A will be
- a) (-2 , 0) b) (0 , 1) c) (0 , 0) d) (1 , 1)
- 12) The distance between a and b is
- a) 1 units b) 4 units c) 5 units d) 6 units



13) If we have the points A (5 , -5) and B (5,4), then the length of AB =

- a) 10 units b) 4 units c) 5 units d) 9 units

14) If the two points A (1 , 2) and B (5,4) are two vertices of a right-angled triangle ABC , then the point C could be

- a) (1 , 4) b) (1 , 3) c) (3 , 1) d) (4 , 1)

15) If A (1 , 3) and C (4 , 1) and $AB \perp BC$, then the point B is

- a) (1 , 4) b) (1 , 1) c) (3 , 1) d) (4 , 2)

16) The point (-2,3) lies in the

- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant

17) The distance between the point (2 , 3) and its image by reflection across y-axis = units .

- a) 3 b) 2 c) 6 d) 4

18) The point at the position (-1 , 3) has moved 2 units to the right and 3 units upwards then its new position is

- a) (2 , 5) b) (0 , 5) c) (0 , 6) d) (1 , 6)

19) In the opposite figure , the distance between the two points A and B = units .

- a) 20 b) 210 c) 190 d) 400



Q2 Complete the following :-

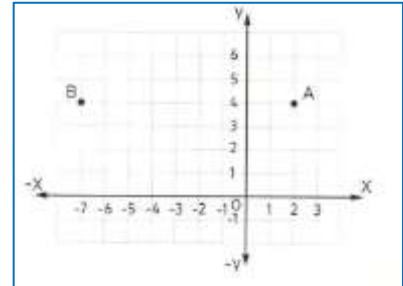
- 1) If the two points A(-2,2) and B (3,a) are on the same horizontal line in the coordinate plane, then $a = \dots\dots\dots$
- 2) The image of the point (-4,1) by reflection in the y-axis is the point $\dots\dots\dots$
- 3) If the point (-1, 4) is the image of the point (a, b) by reflection in the y-axis, then $a+b = \dots\dots\dots$
- 4) The distance between the point (0, -4) and the origin O = $\dots\dots\dots$ units .
- 5) The distance between C (3,-4) and D (3,-2) is $\dots\dots\dots$ units
- 6) The point (4,3) lies in the $\dots\dots\dots$ quadrant
- 7) The point $(-2\frac{1}{4}, 0)$ lies on the $\dots\dots\dots$ -axis.
- 8) The distance between A and B is $\dots\dots\dots$ units .
- 9) The distance between the two points (3, -4) and (3, 7) is $\dots\dots\dots$ units .
- 10) The distance between A (2, y) and B (2, -1) is 6 units and the point A lies in first quadrant, then $y = \dots\dots\dots$
- 11) The distance between the point (1, 2) and its image by reflection across x-axis = $\dots\dots\dots$ units .
- 12) The point M is located 3 units to the right and 5 units up from the origin point, then the ordered pair that represents the point M is $\dots\dots\dots$
- 13) The point (4, 2) is $\dots\dots\dots$ units from the y-axis



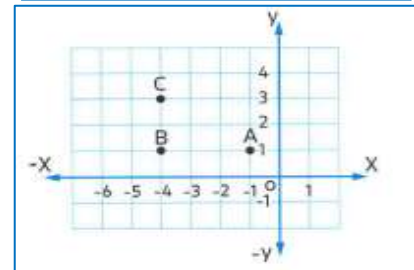
- 14) In the opposite figure: if $AB = 30$ units, then $X = \dots\dots\dots$



- 15) In the opposite coordinate plane ,
the length of $AB = \dots\dots\dots$ units.

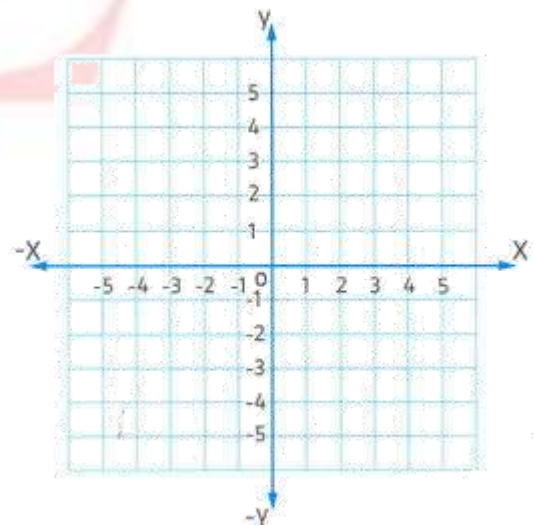


- 16) From the opposite coordinate plane ,
if $ABCD$ is a rectangle ,then the coordinate of
the point D is ($\dots\dots\dots$, $\dots\dots\dots$)



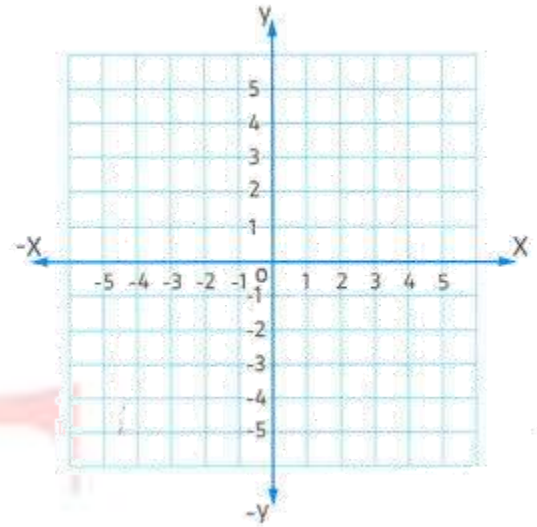
- 17) Plot the following points on the
opposite grid :-
 $A (3,2)$, $B (-3,2)$, $C (-3,-2)$ and $D (3,-2)$

- b) Now, connect them.
c) Identify the shape.



18) In the opposite figure :

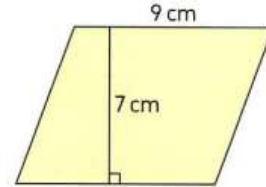
Graph the points A (4,4), B (4,1) and C (1,1) join them to draw the triangle ABC and find the images of each point by reflection across the X-axis



Unit 12

Q1 Choose the correct answer :-1) Area of a parallelogram =cm²

- a) 63 b) 16
c) 32 d) 79

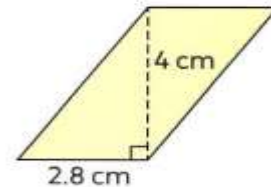


2) The corresponding base in the parallelogram to the height DE is

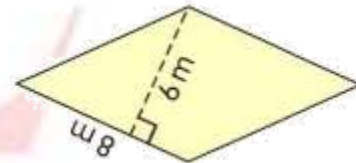
- a) AB b) BC
c) CE d) CD

3) Area of opposite parallelogram = m²

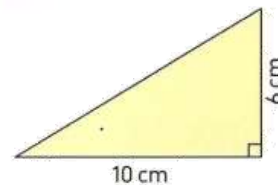
- a) 6.8 b) 11.2
c) 13.6 d) 24.8

4) Area of opposite rhombus = m²

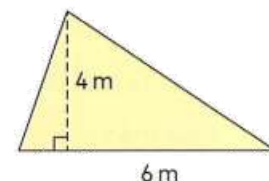
- a) 14 b) 48
c) 24 d) 28

5) Area of a triangle =cm²

- a) 60 b) 16
c) 30 d) 15

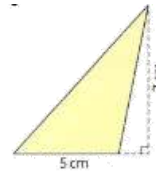
6) Area of a triangle =m²

- a) 24 b) 12
c) 10 d) 46



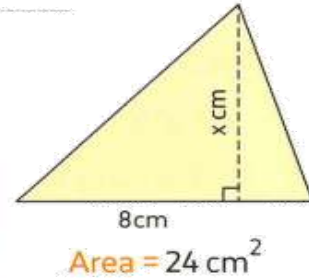
7) Area of a triangle =cm²

- a) 35 b) 21
c) 17.5 d) 79



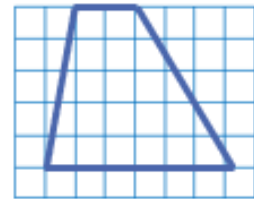
8) The value of X =

- a) 3 b) 12
c) 6 d) 14



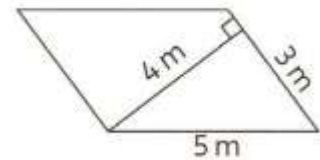
9) Area of a trapezium = square units

- a) 18 b) 20
c) 24 d) 30



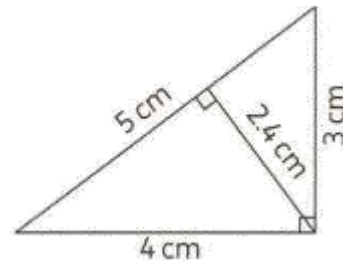
10) Area of a trapezium = square units

- a) 20 b) 12
c) 15 d) 8



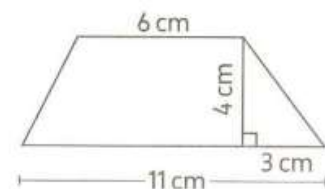
11) Which expression represents the area of the drawn triangle ?

- a) $\frac{1}{2} \times 3 \times 5$ b) $\frac{1}{2} \times 2.4 \times 4$
c) $\frac{1}{2} \times 3 \times 4$ d) $\frac{1}{2} \times 4 \times 5$



12) The area of opposite trapezium is cm²

- a) 34 b) 30
c) 55 d) 40



13) A parallelogram with area 24 cm^2 and base length 6 cm , then its corresponding height =

- a) 3 b) 4 c) 5 d) 6

14) Area of a parallelogram =

- a) $b + h$ b) $b \div h$ c) $b \times h$ d) $(b + h) \times 2$

15) The height of a rhombus whose area is 10 cm^2 and side length 50 mm is cm

- a) 50 b) 20 c) 2 d) 500

16) Area of a rhombus whose side length is 2.4 cm and its height is 2 cm is cm^2

- a) 4.8 b) 5.6 c) 8 d) 10.2

17) Area of triangle =

- a) $\frac{1}{2} + b + h$ b) $\frac{1}{2} \times (b + h)$ c) $\frac{1}{2} \times b \times h$ d) $2 \times b \times h$

18) If ABC is a right-angled triangle at B , and $BC = 10\text{cm}$, $AB = 8\text{cm}$ then its area = cm^2

- a) 40 b) 80 c) 18 d) 9

19) If the area of a triangle is 30.25 m^2 and its base length is 5.5 m, then its corresponding height =m

- a) 5.5 b) 11 c) 2.75 d) 24.75

20) If the perimeter of an equilateral triangle is 27cm and its height is 7.8 cm , then its area = cm^2

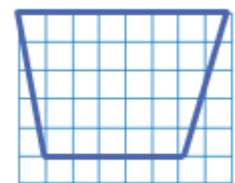
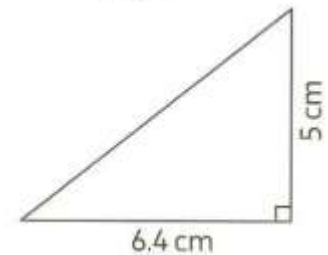
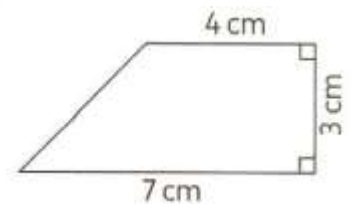
- a) 105.3 b) 210.6 c) 70.2 d) 35.1

21) A rhombus of side length 14 cm and the ratio between its height and its side length is 5 : 7, then the area of the rhombus is

- a) 35 cm^2 b) 70 cm^2 c) 100 cm^2 d) 140 cm^2

Q2 Complete the following :-

- 1) A parallelogram is of area 3.6 m^2 and a base length 0.9 m , then its corresponding height ism
- 2) If a base length of a parallelogram is 10 m and its corresponding height is 3 m less than it , then the area of the parallelogram is cm^2
- 3) If the two dimensions of a parallelogram are 7 cm and 4 cm and its smaller height is 6 cm , then its area is cm^2
- 4) The area of the rhombus whose perimeter is 20 cm and its height is 3.4 cm is cm^2
- 5) The area of opposite trapezium is cm^2
- 6) The area of opposite triangle is cm^2
- 7) The area of opposite trapezium is cm^2



Answers

Unit 10

Q1 / Choose the correct answer :-

1) Which of the following is a unit rate ?

- a) 140 L.E.weekly **b) 90 km per 60 minutes** c) 25 L.E. for each kg d) 2 kg of flour per a cake

2) 30 LE. for 5 kg , then the cost of 30 kg is

- a) 5 b) 30 c) 90 **d) 180**

3) A car consumes $\frac{1}{10}$ liter of petrol to cover 1 km , then it covers km per liter.

- a) 1 b) 5 **c) 10** d) 20

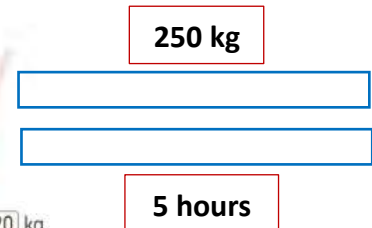
4) The missing numbers in the opposite ratio table are

Kg	1	2	3	4
L.E.				200

- a) 40 , 80 , 120 **b) 50 , 100 , 150** c) 45 , 90 , 135 d) 60 , 120 , 180

5) The unit rate of the opposite tape diagram is

- a) 250 km per 5 hours **b) 50 km per hour**
c) 55 km per hour d) 100 km per 2 hours



6) By using the opposite double number line , the unit rate is

- a) 60 kg per day **b) 30 kg per day** c) 60 kg per 2 days d) 100 kg per 3 days



7) Which of the following is a conversion factor?

- a) $\frac{3km}{1h}$ b) $\frac{60min}{1sec}$ **c) $\frac{7days}{1week}$** d) $\frac{1km}{1000cm}$

8) Which of the following is NOT a conversion factor?

- a) 1 h = 3600 sec b) 12 months : 1 year **c) 1000 mm = 1 liter** d) $\frac{1min}{60sec}$

9) $\frac{1 \text{ km}}{\dots}$ is a conversion factor ?

- a) 1 hour b) 1000 m c) 100 m d) 10000mm

10) $\frac{60 \text{ km}}{1 \text{ h}} \times \dots = \frac{60000 \text{ m}}{1 \text{ h}}$

- a) $\frac{1 \text{ km}}{1000 \text{ m}}$ b) $\frac{1000 \text{ km}}{1 \text{ m}}$ c) $\frac{1 \text{ m}}{1000 \text{ km}}$ d) $\frac{1000 \text{ m}}{1 \text{ km}}$

11) 120 m per min = cm per sec

- a) 12000 b) 200 c) 720 d) 1200

12) 3.6 L $\times$ = 3600 mL

- a) $\frac{1000 \text{ l}}{1 \text{ ml}}$ b) $\frac{100 \text{ ml}}{1 \text{ l}}$ c) $\frac{1000 \text{ ml}}{1 \text{ l}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

13) $2\frac{1}{4}$ day = hours .

- a) 54 b) 48 c) 2400 d) 24

14) 360 sec =h.

- a) 60 b) 10 c) 3600 d) 0.1

15) The conversion factor to convert the speed from m per min to km per hr is

- a) $\frac{60 \text{ min}}{1 \text{ h}}$ b) $\frac{1 \text{ km}}{1000 \text{ m}}$ c) $\frac{1 \text{ h}}{60 \text{ min}} \times \frac{1 \text{ km}}{1000 \text{ m}}$ d) $\frac{1 \text{ km}}{1000 \text{ m}} \times \frac{60 \text{ min}}{1 \text{ h}}$

16) 60 meters per hour = meter(s) per min.

- a) 3600 b) 120 c) 360 d) 1

17) $\frac{1 \text{ m}}{\dots}$ is NOT a conversion factor

- a) 100 cm b) 1000 mm c) 0.001 km d) 60 min

18) 4.8 L $\times$ = 4800 ml

- a) $\frac{100 \text{ ml}}{1 \text{ L}}$ b) $\frac{1000 \text{ L}}{1 \text{ ml}}$ c) $\frac{1000 \text{ ml}}{1 \text{ L}}$ d) $\frac{1 \text{ l}}{1000 \text{ ml}}$

19) If the price of one kilogram of orange is 15 L.E. then the price of 4 kg

- a) $3\frac{3}{4}$ b) 30 c) 90 d) 60

20) $3 : 10 = \dots\dots\dots \%$

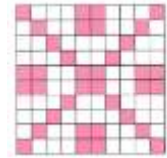
a) 30

b) 12

c) 25

d) 36

21) The opposite shaded area represents each of the following except



a) 36

b) 0.36

c) 36%

d) $\frac{9}{25}$

22) 50% of a number =

a) the whole number

b) half of a number

c) third of a number

d) quarter of number

23) Which value is NOT equivalent to 55% ?

a) $\frac{11}{20}$ b) $\frac{55}{100}$

c) 0.55

d) 0.055

24) $1\frac{1}{4} = \dots\dots\dots \%$

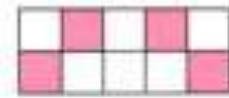
a) 25

b) 125

c) 75

d) 175

25) The opposite figure ,The percentage of the shaded part to whole =



a) 0.4

b) 40

c) 4

d) 60

26) $1 - 25\% = \dots\dots\dots$

a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

27) If the percent of boys in a school is 62% then the percent of girls is ...%

a) 62

b) 42

c) 48

d) 38

28) Marwan ate 75% of a pizza, so he ate half the pizza.

a) exactly

b) less than

c) more than

d) otherwise

29) class has 24 students, 50% of them succeeded in the mathematics exam, then the number of students succeeded in the mathematics exam is

a) 24

b) 12

c) 18

d) 6



30) From the opposite table ,
the value of unknown =

Whole	Part	Percent
Unknown	120	40 %

- a) 30 b) 120 c) 480 d) 300

31) If the price of a watch is 350 L.E. , then 1% of its price is

- a) 3.5 b) 0.35 c) 35 d) 0.035

32) If $\frac{x}{5} = 20\%$, then $x =$

- a) 2 b) 1 c) 4 d) 5

33) 40% of a number = % of half of the same number.

- a) 20 b) 10 c) 80 d) 100

34) If the price of a TV set is 20,000 pounds ,
then 1% of its price = pounds .

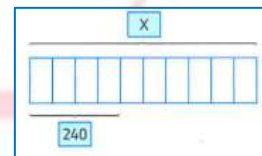
- a) 20 b) 200 c) 400 d) 2000

35) From the opposite double number
line X =



- a) 70 b) 210 c) 140 d) 420

36) From the opposite diagram
X =



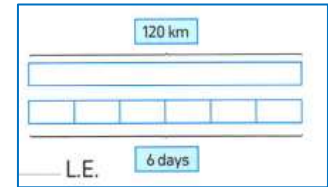
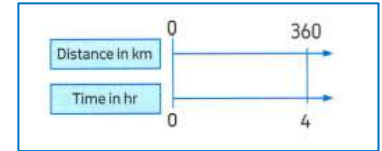
- a) 600 b) 400 c) 240 d) 2400

37) 25% of 1000 = 50% of

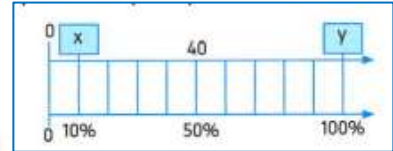
- a) 2000 b) 1500 c) 1250 d) 500

Q2 / Complete the following :-

- 1) From the opposite double number line , the unit rate is 90 km per hour
- 2) The unit rate from the opposite tape diagram is 20 km per day
- 3) 30,000 gm = 30 kg
- 4) 1,500 kg = 1,500,000 gm.
- 5) 2.5 hr = 150 min.
- 6) 60 meters per min = 1 meter(s) per sec.
- 7) 54 LE. for 9 kg , then the cost of 6 kg is 36 LE.
- 8) 48 km per hr = 800 meter per min
- 9) 120 km per hour = 2000 meter per min.
- 10) The percentage is a ratio its second term is 100.
- 11) $36\% + 24\% - 17\% = 43\%$
- 12) $12\% - 4\% = 8\%$
- 13) $1 - (39\% + 0.21) = 40\%$
- 14) $1 - \frac{3}{4} = 25\%$
- 15) $\frac{7}{3} \times \frac{3}{7} = 100\%$
- 16) $15\% - 0.15 = 0$
- 17) $225\% - 1\frac{1}{4} = 100\% = 1$
- 18) $0.35 + \frac{9}{20} = 80\%$
- 19) $15\% + 0.35 + \frac{1}{2} = 100\%$
- 20) $35\% \div \frac{7}{20} = 100\%$
- 21) If the ratio 3:4 is equivalent to $\frac{9}{x-1}$ then $x = 13$
- 22) 10 % of 50 kg = 5 kg



- 23) A store offers a discount 10% off on a shirt of price 300 LE. ,then the discount = 30 L.E.
- 24) $32\% = 1 - 68\%$
- 25) If the price of a ball is 120 LE.then 10% of its price is 12 LE.
- 26) $25\% \text{ of } 1,000 = 50\% \text{ of } 500$
- 27) From the opposite double number line ,
the value of $x + y = 88$
- 28) $15\% \text{ of } 240 \text{ kg} = 36 \text{ kg}$
- 29) $2 \text{ to } 5 = 40\%$
- 30) $20\% \text{ of } 600 \text{ L.E.} = 120 \text{ L.E.}$
- 31) $20\% \text{ of a number} = 50\% \text{ of half of the same number.}$
- 32) $45\% \text{ of a kilometer} = 450 \text{ m}$



Q3 / Answer the following :-

1) Which is the longest 1.34 m or 200 cm ?

200

2) Eman covered $\frac{3}{4}$ km in 6 min. What is the distance covered in 2 min ?

$\frac{1}{4}$ km

3) Is (490 pounds per 7 kg of apples) a unit rate or not?

Not

4) Two machines produce cloth ,the first one produces 365 meters in 5 hours and the second produces 480 meters in 6 hours. Which machine is better ?

Second is better

5) On most summer days, camels drink about 20,000 milliliters of water. How many liters of water is that ? Show your calculations

20 L

6) Assuming you stored 30 boxes of goods, which is 50% of the boxes, what is the total number of boxes?

60 boxes

7) Youssef bought a car for 70,000 pounds , he paid 25% of its price. How much money did he pay ?

17500 LE.

8) The price of a mobile phone before a discount is 3,000 pounds. if the discount is 10 %, What is its price after the discount ?

2700 LE.



- 9) If a man deposited 20,000 pounds in a bank with interest 20% per year. Find the total amount which he gets at the end of one year.

24,000 LE.

- 10) On the sale a shop offers a discount 20% if the price of an article is 1,600 pounds. Find its price after discount.

1,280 LE.

- 11) A piece of cloth of 10 meters long , was put in water. it shrunk by 4% What is the length after shrinking ?

9.6 m

- 12) 20% of the students in a class are wearing black There are 40 students in the class. How many students are wearing black ?

8 students

- 13) 60 Children from school went to a trip and this is 40% of all children in the school. How many all children in the school ?

150 children

- 14) Assuming you stored 20 boxes of goods, which is 80% of the boxes, what is the total number of boxes?

25 boxes

- 15) Select 10% and then use it as a reference percentage to find the following percentages: 30% of 900 pounds?

$10\% \times 900 = 90$

$90 \times 3 = 270 \text{ pounds.}$



- 16) A shirt that costs 1200 EGP has a 40% discount, calculate the value of the amount saved and the price of the shirt after the discount?

Discount (saved money) = $40\% \times 1200 = 480$ pounds.

Price after = $1200 - 480 = 720$ pounds.

- 17) Find the value of X

a) $\frac{x}{8} = \frac{10}{20}$

$x = 4$

b) $\frac{x+1}{10} = 30\%$

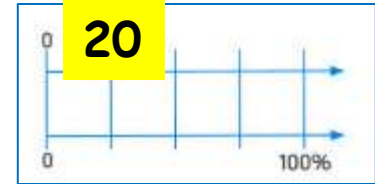
$x = 2$

c) $\frac{2}{x+8} = 5\%$

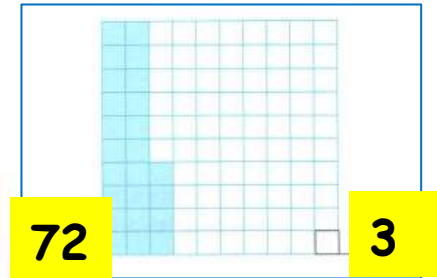
$x = 32$

18) Find the value of each of the following by using the given model .

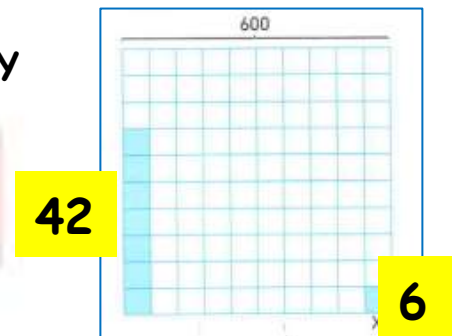
a) 25% of 80 = 20



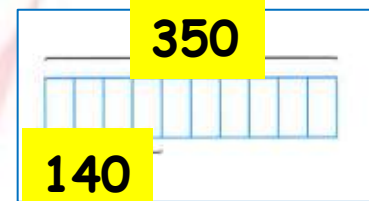
b) 24% of a number is 72 , number = 300



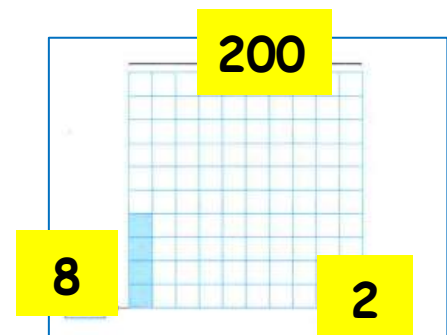
19) From the opposite 10 x 10 grid , Find: X + Y
42 + 6 = 48



20) If 40% of a number is 140 find ,
that number by using the opposite tape
diagram . number is 350



21) Find the value of 4% of 200 by using the
opposite 10 x 10 grid. = 8



- 22) We ate 5 out of 10 bananas.
What percentage of the bananas did we eat? Determine the part, whole, and percentage of this question.

The total	The part	Percentage
10	5	50%

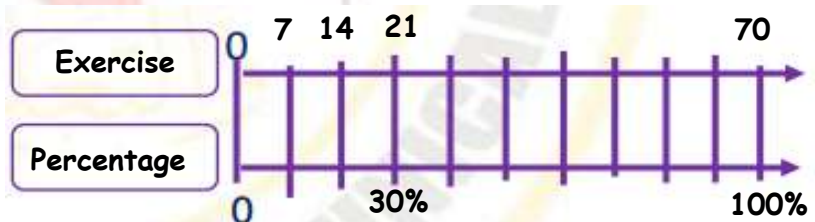
- 23) 300 out of the total number of students in the school have pets, which is 25% of the total number of students in the school, how many students are in the school? From this question, Write the values that represent the part, the whole, and the percentage.

The total	The part	Percentage
1200	300	25%

- 24) Use the double number line to determine the percentage of time Farida spent practicing swimming on Monday.

Percentage = 30%

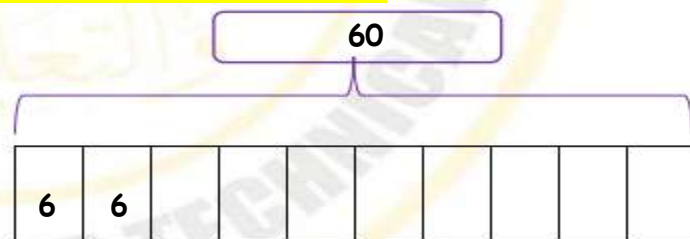
Walid's exercise schedule	
	Swimming (minutes)
Weekly exercise	70
Exercise on Mondays	21



- 25) Use the tape diagram to determine the percentage of time Izz spent practicing swimming on Sunday.

Percentage = 20%

Izz's exercise schedule	
	Swimming (minutes)
Weekly exercise	60
Exercise on Sundays	12



12 out of 60
= 20%

Unit 11

Q1 Choose the correct answer :-

- 1) Point both of whose coordinates are negative will Lie in
- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant
- 2) If the y-coordinate of a point is zero, then this point always lies
- a) 1st quadrant b) 2nd quadrant c) on Y-axis d) on X-axis
- 3) Point (0 , -7) lie on
- a) 1st quadrant b) 4th quadrant c) on Y-axis d) on X-axis
- 4) Point (-3 , 4) lie on
- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant
- 5) If the x-coordinate of a point is zero, then this point Lies
- a) 1st quadrant b) 2nd quadrant c) on Y-axis d) on X-axis
- 6) Which point lies in the third quadrant ?
- a) (0 , -5) b) (5 , -11) c) (-5 , 0) d) (-5 , -11)
- 7) Which of the following points lies on the y-axis ?
- a) (-1 , 0) b) (0 , -1) c) (5 , 0) d) (3 , 3)
- 8) The points (-5 , 2) and (2 , -5) tie in the
- a) 2nd and 4th quadrants, respectively b) Same quadrant
- c) 2nd and 3rd quadrants, respectively d) 4th nd and 3rd quadrants, respectively
- 9) The image of the point (2 , -5) by reflection across the x-axis is the point
- a) (2 , -5) b) (-2 , 5) c) (2 , 5) d) (-2 , -5)
- 10) The image of the point (4 , 0) by reflection across the y-axis is the point
- a) (-4 , 0) b) (0 , -4) c) (4 , 0) d) (0 , 4)
- 11) If the point A (- 2 , 3) moved 2 units to the right then 3 units downward, then A will be
- a) (-2 , 0) b) (0 , 1) c) (0 , 0) d) (1 , 1)
- 12) The distance between a and b is
- a) 1 units b) 4 units c) 5 units d) 6 units



13) If we have the points A (5 , -5) and B (5,4), then the length of AB =

- a) 10 units b) 4 units c) 5 units d) 9 units

14) If the two points A (1 , 2) and B (5,4) are two vertices of a right-angled triangle ABC , then the point C could be

- a) { 1 , 4 } b) (1 , 3) c) (3 , 1) d) (4 , 1)

15) If A (1 , 3) and C (4 , 1) and $AB \perp BC$, then the point B is

- a) (1 , 4) b) { 1 , 1 } c) (3 , 1) d) (4 , 2)

16) The point (-2,3) lies in the

- a) 1st quadrant b) 2nd quadrant c) 3rd quadrant d) 4th quadrant

17) The distance between the point (2 , 3) and its image by reflection across y-axis = units .

- a) 3 b) 2 c) 6 d) 4

18) The point at the position (-1 , 3) has moved 2 units to the right and 3 units upwards then its new position is

- a) (2 , 5) b) (0 , 5) c) (0 , 6) d) { 1 , 6 }

19) In the opposite figure , the distance between the two points A and B = units .

- a) 20 b) 210 c) 190 d) 400



Q2 Complete the following :-

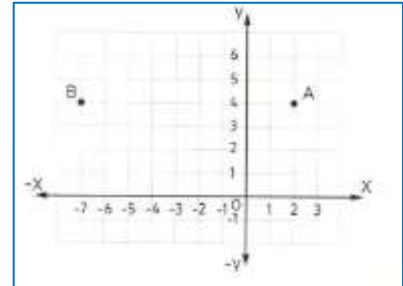
- 1) If the two points A(-2,2) and B (3,a) are on the same horizontal line in the coordinate plane, then $a = 2$
- 2) The image of the point (-4,1) by reflection in the Y-axis is the point (4,1)
- 3) If the point (-1, 4) is the image of the point (a, b) by reflection in the Y-axis, then $a+b = 5$
- 4) The distance between the point (0, -4) and the origin $O = 4$ units .
- 5) The distance between C (3,-4) and D (3,-2) is 2 units
- 6) The point (4,3) lies in the first quadrant
- 7) The point $(-2\frac{1}{4}, 0)$ lies on the X-axis.
- 8) In the opposite figure The distance between A and B is 9 units .
- 9) The distance between the two points (3, -4) and (3, 7) is 11 units .
- 10) The distance between A (2, y) and B (2, -1) is 6 units and the point A lies in first quadrant, then $y = 5$
- 11) The distance between the point (1, 2) and its image by reflection across X-axis = 4 units .
- 12) The point M is located 3 units to the right and 5 units up from the origin point, then the ordered pair that represents the point M is (3,5)
- 13) The point (4, 2) is 4 units from the y-axis



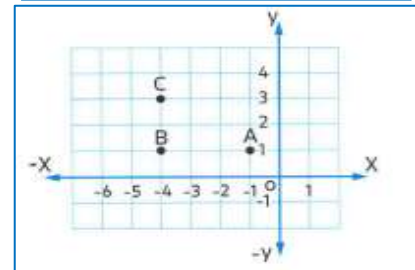
14) In the opposite figure: if $AB = 30$ units, then $X = 19.5$



15) In the opposite coordinate plane ,
the length of $AB = 9$ units.



16) From the opposite coordinate plane ,
if $ABCD$ is a rectangle ,then the coordinate of
the point D is $(-1, 3)$

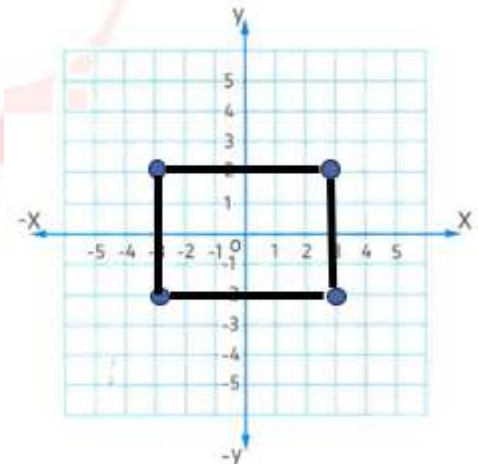


17) Plot the following points on the opposite
grid :-

$A(3, 2)$, $B(-3, 2)$, $C(-3, -2)$ and $D(3, -2)$

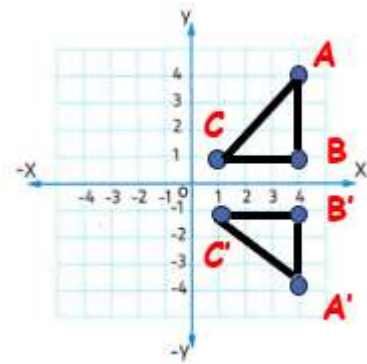
b) Now, connect them.

c) Identify the shape. **rectangle**



18) In the opposite figure :

Graph the points A (4,4), B (4,1) and C (1,1) join them to draw the triangle ABC and find the images of each point by reflection across the X-axis



Unit 12

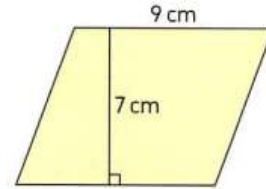
Q1 Choose the correct answer :-1) Area of a parallelogram =cm²

a) 63

b) 16

c) 32

d) 79



2) The corresponding base in the parallelogram to the height DE is

a) AB

b) BC

c) CE

d) CD

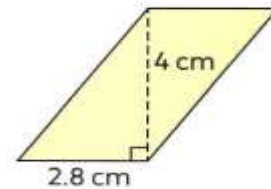
3) Area of opposite parallelogram = m²

a) 6.8

b) 11.2

c) 13.6

d) 24.8

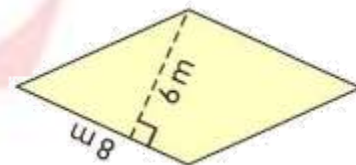
4) Area of opposite rhombus = m²

a) 14

b) 48

c) 24

d) 28

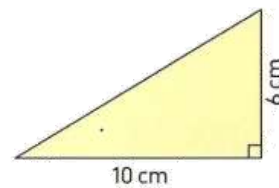
5) Area of a triangle =cm²

a) 60

b) 16

c) 30

d) 15

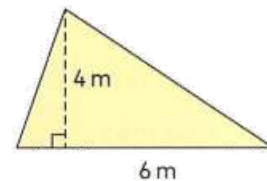
6) Area of a triangle =m²

a) 24

b) 12

c) 10

d) 46



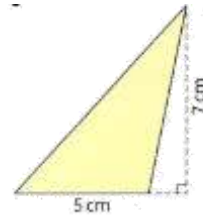
7) Area of a triangle =cm²

a) 35

b) 21

c) 17.5

d) 79



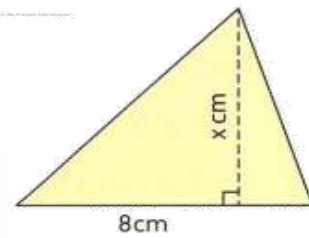
8) The value of X =

a) 3

b) 12

c) 6

d) 14



Area = 24 cm²

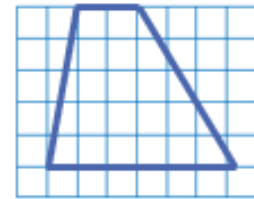
9) Area of a trapezium = square units

a) 18

b) 20

c) 24

d) 30



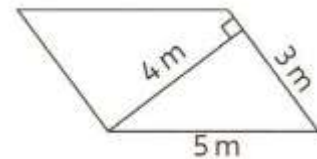
10) Area of a trapezium = square units

a) 20

b) 12

c) 15

d) 8



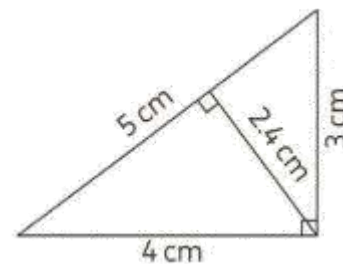
11) Which expression represents the area of the drawn triangle ?

a) $\frac{1}{2} \times 3 \times 5$

b) $\frac{1}{2} \times 2.4 \times 4$

c) $\frac{1}{2} \times 3 \times 4$

d) $\frac{1}{2} \times 4 \times 5$



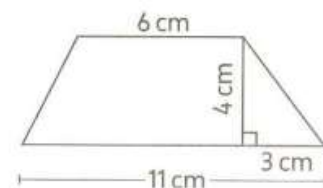
12) The area of opposite trapezium is cm²

a) 34

b) 30

c) 55

d) 40



13) A parallelogram with area 24 cm^2 and base length 6 cm , then its corresponding height =

- a) 3 **b) 4** c) 5 d) 6

14) Area of a parallelogram =

- a) $b + h$ b) $b \div h$ **c) $b \times h$** d) $(b + h) \times 2$

15) The height of a rhombus whose area is 10 cm^2 and side length 50 mm is cm

- a) 50** b) 20 c) 2 d) 500

16) Area of a rhombus whose side length is 2.4 cm and its height is 2 cm is cm^2

- a) 4.8** b) 5.6 c) 8 d) 10.2

17) Area of triangle =

- a) $\frac{1}{2} + b + h$ b) $\frac{1}{2} \times (b + h)$ **c) $\frac{1}{2} \times b \times h$** d) $2 \times b \times h$

18) If ABC is a right-angled triangle at B , and $BC = 10 \text{ cm}$, $AB = 8 \text{ cm}$ then its area = cm^2

- a) 40** b) 80 c) 18 d) 9

19) If the area of a triangle is 30.25 m^2 and its base length is 5.5 m , then its corresponding height =m

- a) 5.5 **b) 11** c) 2.75 d) 24.75

20) If the perimeter of an equilateral triangle is 27 cm and its height is 7.8 cm , then its area = cm^2

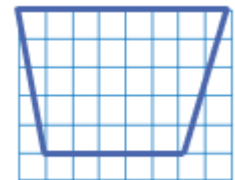
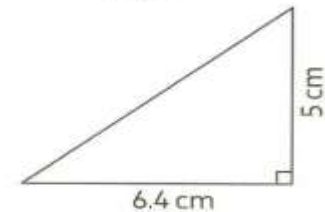
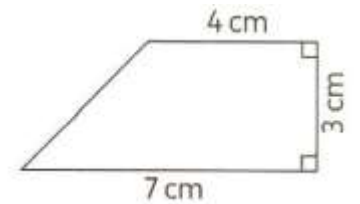
- a) 105.3 b) 210.6 **c) 70.2** d) 35.1

21) A rhombus of side length 14 cm and the ratio between its height and its side length is $5 : 7$, then the area of the rhombus is

- a) 35 cm^2 b) 70 cm^2 c) 100 cm^2 **d) 140 cm^2**

Q2 Complete the following :-

- 1) A parallelogram is of area 3.6 m^2 and a base length 0.9 m , then its corresponding height is 4 m
- 2) If a base length of a parallelogram is 10 m and its corresponding height is 3 m less than it , then the area of the parallelogram is 70 cm^2
- 3) If the two dimensions of a parallelogram are 7 cm and 4 cm and its smaller height is 6 cm , then its area is 42 cm^2
- 4) The area of the rhombus whose perimeter is 20 cm and its height is 3.4 cm is 17 cm^2
- 5) The area of opposite trapezium is 16.5 cm^2
- 6) The area of opposite triangle is 16 cm^2
- 7) The area of opposite trapezium is 32.5 cm^2



حمل الآن

مجاناً وحصرياً

المراجعة رقم (7)

اختبار شهر ابريل



Model (1)

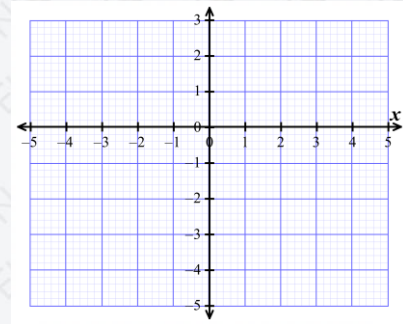
Question 1 : Choose the correct answer :

- 1 $15\% = 10\% + \dots$
 - (a) 1%
 - (b) 5%
 - (c) 10%
 - (d) 20%
- 2 The point $(1.25, -2.5)$ lies in the quadrant .
 - (a) First
 - (b) Second
 - (c) Third
 - (d) Fourth
- 3 The distance between the two numbers -9 and -6 on the number line equals .. unit.
 - (a) 9
 - (b) 3
 - (c) 15
 - (d) 6
- 4 Which of the following mathematical expressions can be used to find the surface area of cuboid?
 - (a) $A = 2(Lw + Lh + wh)$
 - (b) $A = 2WLh$
 - (c) $A = W + L + h$
 - (d) $A = WLh \div 2$
- 5 A triangle has a base length of 40 cm and the corresponding height is 14 cm , then its area is
 - (a) 280 cm
 - (b) 500 cm^2
 - (c) 280 cm^2
 - (d) 54 cm^2
- 6 The point $(0,4)$ lies on the y-axis and reflection in x-axis
 - (a) $(0, -4)$
 - (b) $(1,4)$
 - (c) $(4,0)$
 - (d) $(2,4)$
- 7 A rhombus of area 60 cm^2 and its height 10 cm , then its side length = cm
 - (a) 6
 - (b) 600
 - (c) 0.6
 - (d) 60
- 8 The reflection of the point $(-\frac{1}{4}, -2\frac{1}{2})$ in the y-axis results in the point
 - (a) $(-\frac{1}{4}, 2\frac{1}{2})$
 - (b) $(\frac{1}{4}, 2\frac{1}{2})$
 - (c) $(\frac{1}{4}, -2\frac{1}{2})$
 - (d) $(-\frac{1}{4}, -2\frac{1}{2})$

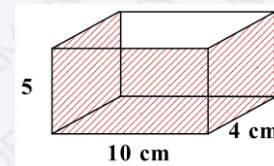
Question 2 : Answer the following questions :

- 1 A parallelogram has a base length **13 cm** and the corresponding height to this base is **6 cm** , then the area is

- 2 Match the point $A(-3, -4)$, $B(2, -4)$, $C(-2, 1)$ To form a geometric shape .
- state the name of the resulting shape.
 - find the distance between point A and point B .

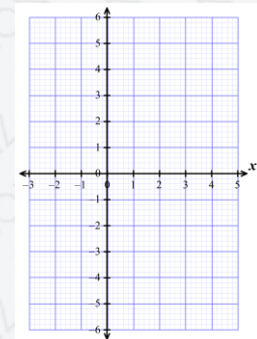


- 3 Find the surface area of the following solid



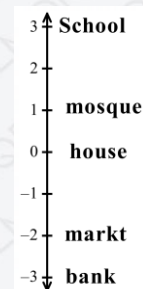
- 4 A triangle has a base length 70 cm the corresponding height to this base is 15 cm
Find area ?

- 5 If we start from the origin and move 4 units horizontally to the right on the x-axis and 5 units vertically up words
- find the ordered pair that determines the position of this point .
 - determine the point reflection of itself , in the x-axis .



- 6 If the height of a rhombus is 8 cm and its area 72 cm^2 , find its side length ?

- 7
- The distance between house and school =
 - The distance between mosque and market =
 - The distance between house and mosque = The distance between the bank and the



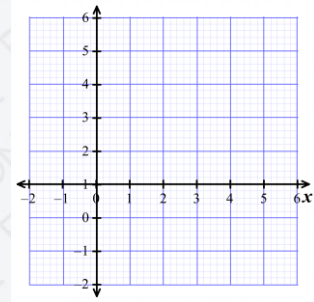
Model (2)

Question 1 : Choose the correct answer :

- ① Area of a trapezoid then base = 9 and 13 , height = 5
 - (a) 55
 - (b) 50
 - (c) 60
 - (d) 62
- ② Point $(-6,2)$ lies in which quadrant?
 - (a) 1st
 - (b) 2nd
 - (c) 3rd
 - (d) 4th
- ③ The bag cost 240 L.E. it is discounted by 25% , what the final price?
 - (a) 180
 - (b) 190
 - (c) 175
 - (d) 185
- ④ The point lies on the x-axis .
 - (a) (2,0)
 - (b) (2,3)
 - (c) (1,1)
 - (d) (0,2)
- ⑤ If the point $(-2,2)$ is the vertex of a right-angled triangle and the lengths of the two right angle sides are 3 unit and 5 unit, then the coordinates of the other two vertices are
 - (a) $(-2,5)$, $(-7,2)$
 - (b) $(-2,3)$, $(3,-3)$
 - (c) $(-2,7)$, $(1,2)$
 - (d) $(1,-7)$, $(-2,-7)$
- ⑥ A cube whose one face has an area 7cm^2 , then its total surface area is cm^2
 - (a) 48
 - (b) 63
 - (c) 35
 - (d) 42
- ⑦ The distance between the two numbers A and 4 on the give number line is 7 units , then $A = \dots$
 - (a) 4
 - (b) -3
 - (c) 7
 - (d) -7
- ⑧ The height of a parallelogram is 10 cm and its area is 120cm^2 , then the length of the corresponding base to this height is
 - (a) 12 cm
 - (b) 12cm^2
 - (c) 1.200cm^2
 - (d) 1.200 cm
- ⑨ The reflection of the point $(7,-4)$ in the y-axis results in the point
 - (a) $(-7,4)$
 - (b) $(-7,-4)$
 - (c) $(7,-4)$
 - (d) $(-4,7)$

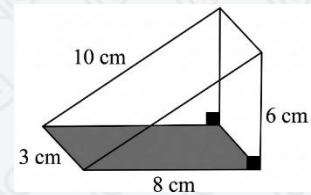
Question 2 : Answer the following questions :

- ① Using the coordinate plane , draw a square ABCD where one of its vertices is the point $A(2, 2)$ and its side length is 3 unit, then write the coordinates of the other three vertices?

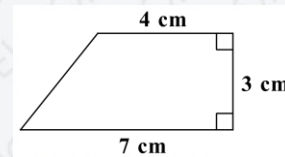


- ② If the value of Ahmed and his friend's dinner meal is 450 pounds with an additional 15% tax. calculate the total amount Ahmed and his friend will pay ?

- ③ Find the surface area of the opposite figure ?



- ④ Find the area of the opposite trapezium ?



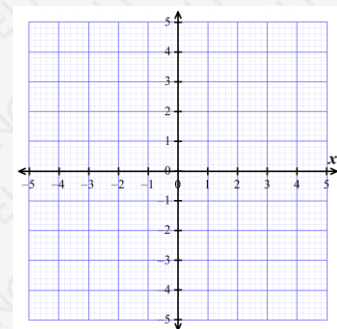
- ⑤ Graph each point . then reflect the point in the x-axis , record the coordinates of the image :

$A(1, 3)$, image

$B(-2, -2)$, image

$C(-4, 5)$, image

$D(2, -5)$, image

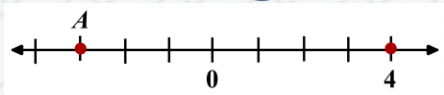


- ⑥ Find the area of a rhombus whose perimeter 20 cm and its height is 3.4 cm

- ⑦ An iron cube-shaped box is to have its outer surface painted , if the length of its edge is 3 meters , calculate its surface area .

Model (3)

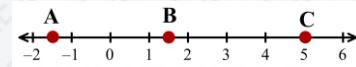
Question 1 : Choose the correct answer :

- 1 The solid that consists of two triangular bases and 3 rectangular faces is called a
 (a) square pyramid (b) cube (c) prism (d) cuboid
- 2 The y – coordinate in the ordered pair (3,7) is
 (a) 7 (b) 3 (c) 73 (d) 37
- 3 A triangle has a base length of 50 m and the corresponding height 12 m , then its area is
 (a) 300 m (b) 560 m² (c) 300 m² (d) 54 m²
- 4 Decrease 120 by 25% is
 (a) 30 (b) 60 (c) 90 (d) 110
- 5 The distance between the two E and F on the given number line is

 (a) $F - E$ (b) $F + B$ (c) $|E| + |F|$ (d) $|F| - |E|$
- 6 All the following points do not lie in the fourth quadrant except , the point
 (a) (-2.5,0) (b) (0,1.5) (c) (0.5, -2.5) (d) (2,1.5)
- 7 A triangle has an area of 30 Cm² and a height of 10 cm , then the length of its base is
 (a) 6 (b) 300 (c) 0.3 (d) 150
- 8 If the point (-3, a) lies in the third quadrant the possible value of
 (a) 0 (b) -5 (c) 4 (d) 2
- 9 A square pyramid has vertices .
 (a) 4 (b) 5 (c) 6 (d) 3

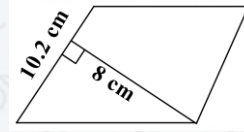
Question 2 : Answer the following questions :

- 1 A cuboid its length is 8 cm , its width is 5 cm and its height is 10 cm , Find the surface area ?
- 2 IF 25% of 1000 = 50% of x , find x ?

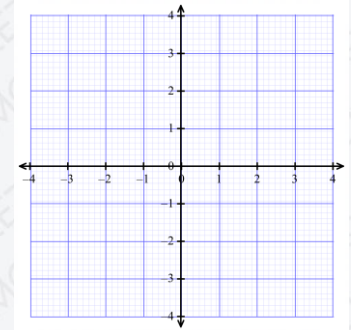
- 3 In the opposite number line :
- a) the length of $\overline{AB} = \dots\dots$ length units.
 - b) the length of $\overline{BC} = \dots\dots$ length units.



- 4 Find the area of rhombus ?



- 5 Plot the points $A(1, -1)$, $B(1, 3)$, $C(-3, 3)$ and $D(-3, -1)$
What is the name of the figure ABCD ?



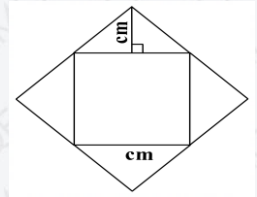
- 6 Calculate the surface area of cube has edge length of 7 cm ?
- 7 The price of a TV is. 20000 L.E , the TV is one sale for 15% , find the selling price of TV?

Model (4)

Question 1 : Choose the correct answer :

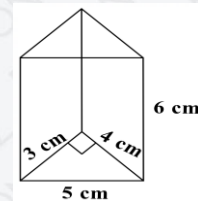
- 1 The point lies on the y-axis .
- a) $(0, -3)$
 - b) $(-3, 0)$
 - c) $(-4, 5)$
 - d) $(-5, 4)$
- 2 The point $(0, 4)$ lies on the y-axis , and its reflection in the x-axis lies on the
- a) $x - axis$
 - b) $y - axis$
 - c) second quadrant
 - d) fourth quadrant
- 3 The distance between the two point $(-3, 7)$ and $(-3, 4)$ unit
- a) 3
 - b) 0
 - c) 1
 - d) 7
- 4 A parallelogram the length of the base is 4.7 cm and the corresponding height 2.9 cm , then its area
- a) 13.63 cm
 - b) 12.63 cm
 - c) 13.63 cm^2
 - d) 7.6 cm^2

- 5 The area of right angled triangle is equal to
- (a) $A = b \times h$ (b) $A = \frac{1}{2} \times b \times h$
- (c) $A = \frac{b}{h}$ (d) $A = 2(b \times h)$
- 6 A square pyramid base area of 30 Cm^2 and the area of one triangle face is 10 Cm^2 , then the surface area is
- (a) 40 (b) 70 (c) 55 (d) 100
- 7 22% of 44 44% of 22
- (a) < (b) > (c) = (d) other wise
- 8 The number of heights of the right-angle triangle is height .
- (a) 1 (b) 0 (c) 3 (d) 2
- 9 By folding the opposite shape , the solid formed is
- (a) Cube (b) triangular prism
- (c) squared pyramid (d) cuboid

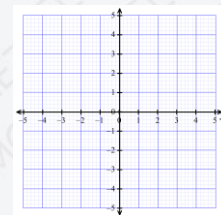


Question 2 : Answer the following questions :

- 1 Find the surface area of the opposite triangular prism ?

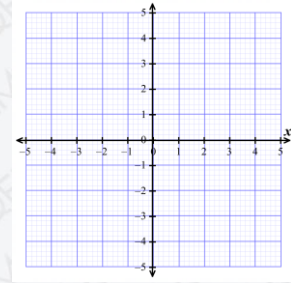


- 2 Plot the points $A(3,1)$, $B(3,3)$, $C(4,1)$ join them and find the image of each one by reflection across the y-axis?



- 3 Which is larger , the area of a triangle with base length of 12 cm and a height of 8 cm or the area of parallelogram with base of 8 cm and a height of 8 cm ?
- 4 Find the value of 38% of 600 pounds ?

- 5 Plot the following points on the opposite grid $A(4,3)$, $B(-1,3)$, $C(-1,-2)$ then identify the type of triangle according to its angles .

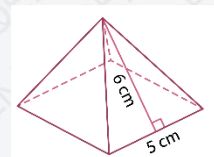
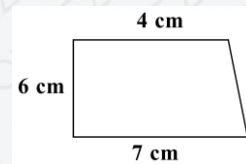


- 6 The surface area of cube whose edge length 10 cm ?
- 7 Find the area of rhombus with side length 10 cm and height of 6.5 cm ?

Model (5)

Question 1 : Choose the correct answer :

- 1 The two points $(5,8)$ and $(5,3)$ lie on
- (a) One vertical line (b) One horizontal line
(c) Both of two lines (d) Non of the perivous
- 2 The x – coordinate for the origin point is
- (a) $(0,0)$ (b) 1 (c) 0 (d) $(0,1)$
- 3 $15\% + 45\% = \dots$
- (a) 50% (b) 0.6 (c) 0.060 (d) 6%
- 4 Area of the opposite trapezium is cm^2
- (a) 42 (b) 66
(c) 24 (d) 33
- 5 The area of opposite square pyramid is
- (a) 25 (b) 15
(c) 40 (d) 85
- 6 The image of the point $(-1,5)$ by reflection x-axis is
- (a) $(5,-1)$ (b) $(1,-5)$ (c) $(-1,-5)$ (d) $(1,5)$
- 7 The area of rhombus whose perimeter is 40 cm and height 8 cm is
- (a) 320 (b) 80 (c) 160 (d) 48

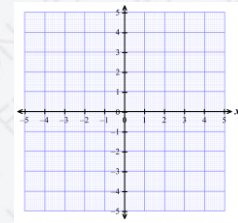


- 8 The distance between the two points $(-1,3)$ and $(4,3)$ is Units .
 (a) 5 (b) 3 (c) 0 (d) 4
- 9 The surface area of a cuboid its length 10 cm , width 5 cm and height 6 cm is ...
 (a) 21 cm^2 (b) 56 cm^2 (c) 280 cm^2 (d) 300 cm^2

Question 2 : Answer the following questions :

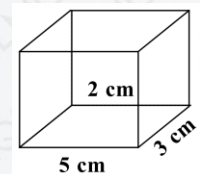
- 1 The two base length of a parallelogram are 8 cm , 6 cm and the smaller height it 3 cm , calculate the greater height of the parallelogram ?

- 2 Plot the points $A(3,4)$, $B(1,3)$, $C(1,1)$
 join them and find the image
 of each reflection across the y-axis .

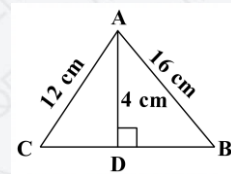


- 3 The price of a mobile phone before discount is 6000 L.E if the discount was 25% ,
 What is the price after discount ?

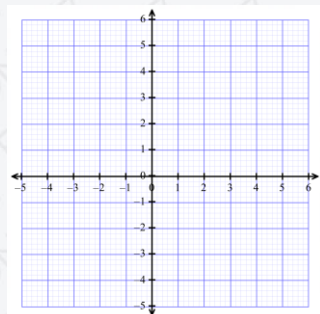
- 4 Find the surface area of the opposite solid ?



- 5 ABC is a right angled at A , $\overline{AD} \perp \overline{BC}$
 If $AB = 16\text{ cm}$, $AC = 12\text{ cm}$ and $AD = 9\text{ cm}$,
 find the area of ΔABC

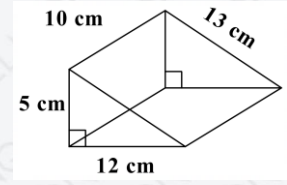


- 6 Plot the points $A(2,2)$, $B(-2,2)$, $C(-2,-2)$ and $D(2,-2)$
 What is the name of the figure ABCD ?



7

Find the surface area of the given triangular prism ?



Model (1)

Question 1 : Choose the correct answer :

- 1 $15\% = 10\% + \dots$
 - (a) 1%
 - (b) 5%
 - (c) 10%
 - (d) 20%
- 2 The point $(1.25, -2.5)$ lies in the quadrant .
 - (a) First
 - (b) Second
 - (c) Third
 - (d) Fourth
- 3 The distance between the two numbers -9 and -6 on the number line equals ... unit.
 - (a) 9
 - (b) 3
 - (c) 15
 - (d) 6
- 4 Which of the following mathematical expressions can be used to find the surface area of cuboid?
 - (a) $A = 2(Lw + Lh + wh)$
 - (b) $A = 2WLh$
 - (c) $A = W + L + h$
 - (d) $A = WLh \div 2$
- 5 A triangle has a base length of 40 cm and the corresponding height is 14 cm , then its area is
 - (a) 280 cm
 - (b) 500 cm^2
 - (c) 280 cm^2
 - (d) 54 cm^2
- 6 The point $(0,4)$ lies on the y-axis and reflection in x-axis
 - (a) $(0, -4)$
 - (b) $(1,4)$
 - (c) $(4,0)$
 - (d) $(2,4)$
- 7 A rhombus of area 60 cm^2 and its height 10 cm , then its side length = cm
 - (a) 6
 - (b) 600
 - (c) 0.6
 - (d) 60
- 8 The reflection of the point $(-\frac{1}{4}, -2\frac{1}{2})$ in the y-axis results in the point
 - (a) $(-\frac{1}{4}, 2\frac{1}{2})$
 - (b) $(\frac{1}{4}, 2\frac{1}{2})$
 - (c) $(\frac{1}{4}, -2\frac{1}{2})$
 - (d) $(-\frac{1}{4}, -2\frac{1}{2})$

Question 2 : Answer the following questions :

- 1 A parallelogram has a base length 13 cm and the corresponding height to this base is 6 cm , then the area is

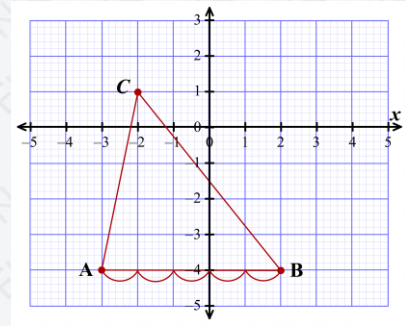
$$A = h \times b = 13 \times 6 = 78\text{ cm}^2$$

2 Match the point $A(-3, -4)$, $B(2, -4)$, $C(-2, 1)$ To form a geometric shape .

- state the name of the resulting shape.
- find the distance between point A and point B .

a) triangle

b) 5 units .

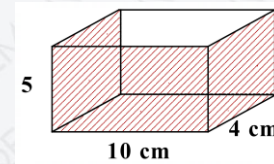


3 Find the surface area of the following solid

$$A = 2(Lw + wh + hL)$$

$$A = 2(10 \times 4 + 4 \times 5 + 10 \times 5)$$

$$A = 2(40 + 20 + 50) = 220 \text{ CM}^2$$



4 A triangle has a base length 70 cm the corresponding height to this base is 15 cm
Find area ?

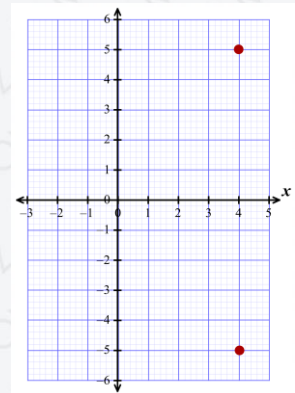
$$\frac{1}{2} \times h \times b = \frac{1}{2} \times 70 \times 15 = 525 \text{ cm}^2$$

5 If we start from the origin and move 4 units horizontally to the right on the x-axis and 5 units vertically up words

- find the ordered pair that determines the position of this point .
- determine the point reflection of itself , in the x-axis .

a) (4,5)

b) (4,-5)



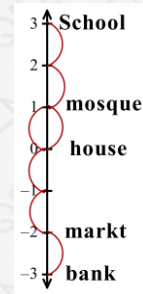
6 If the height of a rhombus is 8cm and its area 72 cm^2 , find its side length ?

$$A = b \times h$$

$$b = \frac{A}{h} = \frac{72}{8} = 9 \text{ cm}$$

- 7 A) The distance between house and school = 3 km
 B) The distance between mosque and market = 3 km
 C) The distance between house and mosque = The distance between the bank and the market .

House and mosque = 1 km
 Bank and = 1 km
 Move 1 step from bank to market
 Bank and market



Model (2)

Question 1 : Choose the correct answer :

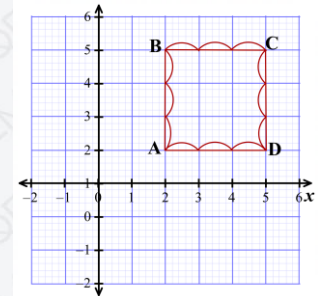
- 1 Area of a trapezoid then base = 9 and 13 , height = 5
 (a) 55 (b) 50 (c) 60 (d) 62
- 2 Point $(-6,2)$ lies in which quadrant?
 (a) 1st (b) 2nd (c) 3rd (d) 4th
- 3 The bag cost 240 L.E. it is discounted by 25% , what the final price?
 (a) 180 (b) 190 (c) 175 (d) 185
- 4 The point lies on the x-axis .
 (a) (2,0) (b) (2,3) (c) (1,1) (d) (0,2)
- 5 If the point $(-2,2)$ is the vertex of a right-angled triangle and the lengths of the two right angle sides are 3 unit and 5 unit, then the coordinates of the other two vertices are
 (a) $(-2,5), (-7,2)$ (b) $(-2,3), (3,-3)$
 (c) $(-2,7), (1,2)$ (d) $(1,-7), (-2,-7)$
- 6 A cube whose one face has an area $7cm^2$, then its total surface area is cm^2
 (a) 48 (b) 63 (c) 35 (d) 42
- 7 The distance between the two numbers A and 4 on the give number line is 7 units ,then A=
 (a) 4 (b) -3 (c) 7 (d) -7

- 8 The height of a parallelogram is 10 cm and its area is 120 cm^2 , then the length of the corresponding base to this height is
- (a) 12 cm (b) 12 cm^2 (c) 1.200 cm^2 (d) 1.200 cm
- 9 The reflection of the point $(7, -4)$ in the y-axis results in the point
- (a) $(-7, 4)$ (b) $(-7, -4)$ (c) $(7, -4)$ (d) $(-4, 7)$

Question 2 : Answer the following questions :

- 1 Using the coordinate plane, draw a square ABCD where one of its vertices is the point $A(2, 2)$ and its side length is 3 unit, then write the coordinates of the other three vertices?

$B(2, 5), C(5, 5), D(5, 2)$



- 2 If the value of Ahmed and his friend's dinner meal is 450 pounds with an additional 15% tax. calculate the total amount Ahmed and his friend will pay?

$10\% \text{ of } 450 = 45\text{ L.E}$

$5\% = \frac{1}{2} \text{ OF } 10\% = 22.5\text{ L.E}$

$15\% = 45 + 22.5 = 67.5\text{ L.E}$

$\text{they pay} = 450 + 67.5 = 517.5\text{ L.E}$

- 3 Find the surface area of the opposite figure?

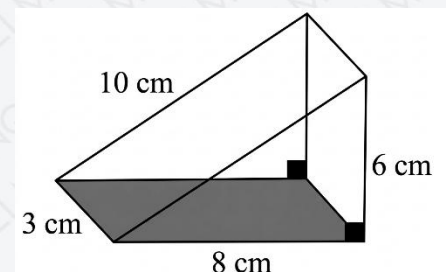
$\text{face } 1 = 8 \times 3 = 24\text{ cm}^2$

$\text{face } 2 = 10 \times 3 = 30\text{ cm}^2$

$\text{face } 3 = 6 \times 3 = 18\text{ cm}^2$

$\text{face } 4 \text{ and } 5 = 8 \times 6 = 48$

$\text{the total surface area} = 24 + 30 + 18 + 48 = 166\text{ cm}^2$

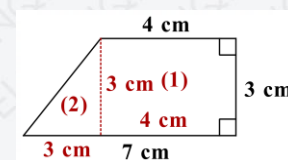


- 4 Find the area of the opposite trapezium?

$\text{area } 1 = 4 \times 3 = 12\text{ cm}^2$

$\text{area } 2 = 3 \times 3 \times \frac{1}{2} = 4.5\text{ cm}^2$

$\text{area of trapezium} = 12 + 4.5 = 16.5\text{ cm}^2$



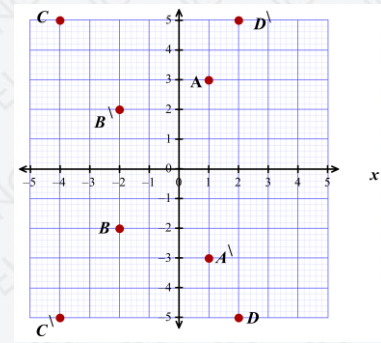
- 5 Graph each point . then reflect the point in the x-axis ,
record the coordinates of the image :

$A(1,3)$, image $(1,-3)$

$B(-2,-2)$, image $(-2,2)$

$C(-4,5)$, image $(-4,-5)$

$D(2,-5)$, image $(2,5)$

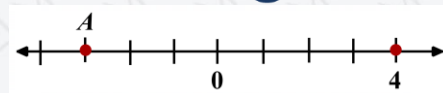


- 6 Find the area of a rhombus whose perimeter 20 cm and its height is 3.4 cm
 $\text{side} = 20 \div 4 = 5\text{ cm}$
 $\text{area} = 5 \times 3.4 = 17$
- 7 An iron cube-shaped box is to have its outer surface painted , if the length of its edge is 3 meters , calculate its surface area .
 $\text{total area} = 6 \times s \times s = 6 \times 3 \times 3 = 54\text{ m}^2$

Model (3)

Question 1 : Choose the correct answer :

- 1 The solid that consists of two triangular bases and 3 rectangular faces is called a
 (a) square pyramid (b) cube (c) **prism** (d) cuboid
- 2 The y – coordinate in the ordered pair $(3,7)$ is
 (a) **7** (b) 3 (c) 73 (d) 37
- 3 A triangle has a base length of 50 m and the corresponding height 12 m , then its area is
 (a) 300 m (b) 560 m^2 (c) **300 m^2** (d) 54 m^2
- 4 Decrease 120 by 25% is
 (a) 30 (b) 60 (c) **90** (d) 110
- 5 The distance between the two E and F on the given number line is
 (a) $F - E$ (b) $F + B$ (c) **$|E| + |F|$** (d) $|F| - |E|$



- 6 All the following points do not lie in the fourth quadrant except , the point
- (a) $(-2.5, 0)$ (b) $(0, 1.5)$ (c) $(0.5, -2.5)$ (d) $(2, 1.5)$
- 7 A triangle has an area of 30 cm^2 and a height of 10 cm , then the length of its base is ...
- (a) 6 (b) 300 (c) 0.3 (d) 150
- 8 If the point $(-3, a)$ lies in the third quadrant the possible value of
- (a) 0 (b) -5 (c) 4 (d) 2
- 9 A square pyramid has vertices .
- (a) 4 (b) 5 (c) 6 (d) 3

Question 2 : Answer the following questions :

- 1 A cuboid its length is 8 cm , its width is 5 cm and its height is 10 cm , Find the surface area ?

$$A = 2(Lw + wh + lh)$$

$$A = 2(8 \times 5 + 8 \times 10 + 5 \times 10)$$

$$A = 2(40 + 80 + 50)$$

$$A = 2 \times 170 = 340 \text{ cm}^2$$

- 2 IF 25% of $1000 = 50\%$ of x , find x ?.

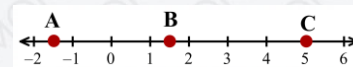
$$25\% \text{ of } 1000 = \frac{10}{100} \times 1000 = 100 , 20\% = 100 + 100 = 200$$

$$5\% = \frac{1}{2} \text{ of } 10\% = 50 , 25\% = 200 + 50 = 250$$

$$50\% \text{ of } x = 250 , 250 \div \frac{50}{100} = 250 \times \frac{100}{50} = 500$$

$$x = 500$$

- 3 In the opposite number line :
- a) the length of $\overline{AB} = \dots\dots$ length units.
- b) the length of $\overline{BC} = \dots\dots$ length units.



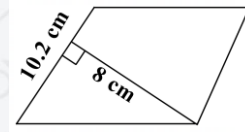
$$|A| + |B| = \left|1\frac{1}{2}\right| + \left|-1\frac{1}{2}\right| = 1\frac{1}{2} + 1\frac{1}{2} = 3 \text{ unit}$$

$$|C| - |B| = |5| - \left|-1\frac{1}{2}\right| = 5 - 1\frac{1}{2} = 3\frac{1}{2} \text{ unit}$$

4

Find the area of rhombus ?

$$A = b \times h = 8 \times 10.2 = 81.6 \text{ cm}^2$$

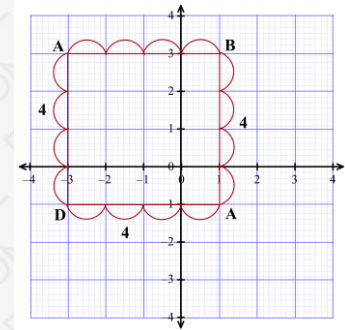


5

Plot the points $A(1, -1)$, $B(1, 3)$, $C(-3, 3)$ and $D(-3, -1)$

What is the name of the figure ABCD ?

Square



6

Calculate the surface area of cube has edge length of 7 cm ?

$$A = 6 \times s \times s = 6 \times 7 \times 7 \\ = 6 \times 49 = 294 \text{ cm}^2$$

7

The price of a TV is. 20000 L.E , the TV is one sale for 15% , find the selling price of TV?

$$10\% = 2000, 5\% = \frac{1}{2} \text{ of } 10\% = 1000, 15\% = 2000 + 1000 = 3000 \\ 20000 - 3000 = 17000$$

Model (4)

Question 1 : Choose the correct answer :

1

The point lies on the y-axis .

- (a) $(0, -3)$ (b) $(-3, 0)$ (c) $(-4, 5)$ (d) $(-5, 4)$

2

The point $(0, 4)$ lies on the y-axis , and its reflection in the x-axis lies on the

- (a) $x - axis$ (b) $y - axis$ (c) second quadrant (d) fourth quadrant

3

The distance between the two point $(-3, 7)$ and $(-3, 4)$ unit

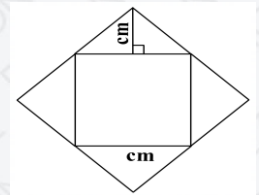
- (a) 3 (b) 0 (c) 1 (d) 7

4

A parallelogram the length of the base is 4.7 cm and the corresponding height 2.9 cm , then its area

- (a) 13.63 cm (b) 12.63 cm (c) 13.63 cm^2 (d) 7.6 cm^2

- 5 The area of right angled triangle is equal to
- (a) $A = b \times h$ (b) $A = \frac{1}{2} \times b \times h$
- (c) $A = \frac{b}{h}$ (d) $A = 2(b \times h)$
- 6 A square pyramid base area of 30 Cm^2 and the area of one triangle face is 10 Cm^2 , then the surface area is
- (a) 40 (b) 70 (c) 55 (d) 100
- 7 22% of 44 44% of 22
- (a) < (b) > (c) = (d) other wise
- 8 The number of heights of the right-angle triangle is height .
- (a) 1 (b) 0 (c) 3 (d) 2
- 9 By folding the opposite shape , the solid formed is
- (a) Cube (b) triangular prism
- (c) squared pyramid (d) cuboid



Question 2 : Answer the following questions :

- 1 Find the surface area of the opposite triangular prism ?

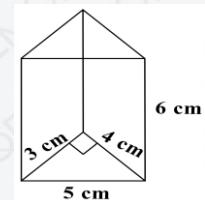
$$\text{face 1} = 6 \times 4 = 24 \text{ cm}^2$$

$$\text{face 2} = 6 \times 3 = 18 \text{ cm}^2$$

$$\text{face 3} = 6 \times 5 = 30 \text{ cm}^2$$

$$\text{triangle} \times 2 = \left(3 \times 4 \times \frac{1}{2} \right) \times 2 = 12$$

$$\text{the total surface area} = 24 + 18 + 30 + 12 = 84 \text{ cm}^2$$

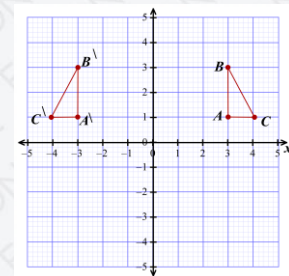


- 2 Plot the points $A(3,1)$, $B(3,3)$, $C(4,1)$ join them and find the image of each one by reflection across the y-axis?

$$\bar{A} = (-3,1)$$

$$\bar{B} = (-3,3)$$

$$\bar{C} = (-4,1)$$



- 3 Which is larger , the area of a triangle with base length of 12 cm and a height of 8 cm or the area of parallelogram with base of 8 cm and a height of 8 cm ?

$$\text{area of triangle} = 12 \times 8 \times \frac{1}{2} = 48 \text{ cm}^2$$

$$\text{area of parallelogram} = 8 \times 8 = 64 \text{ cm}^2$$

The largest area of parallelogram

- 4 Find the value of 38% of 600 pounds ?

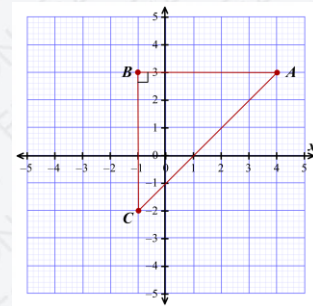
$$10\% = 60 \text{ pounds then } , 30\% = 60 \times 3 = 180 \text{ pounds}$$

$$1\% = 6 \text{ pounds then } 8\% = 6 \times 8 = 48 \text{ pounds}$$

$$38\% = 180 + 48 = 228 \text{ pounds}$$

- 5 Plot the following points on the opposite grid A(4,3) , B(-1,3) , C(-1,-2) then identify the type of triangle according to its angles .

Right angled triangle .



- 6 The surface area of cube whose edge length 10 cm ?

$$\text{total area} = 6 \times s \times s = 6 \times 10 \times 10 = 600 \text{ cm}^2$$

- 7 Find the area of rhombus with side length 10 cm and height of 6.5 cm ?

$$A = b \times h = 10 \times 6.5 = 65 \text{ cm}^2$$

Model (5)

Question 1 : Choose the correct answer :

- 1 The two points (5,8) and (5,3) lie on

(a) One vertical line

(b) One horizontal line

(c) Both of two lines

(d) Non of the perivous

- 2 The x – coordinate for the origin point is

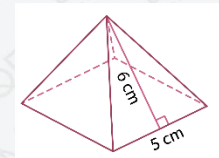
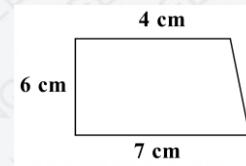
(a) (0,0)

(b) 1

(c) 0

(d) (0,1)

- 3 $15\% + 45\% = \dots$
 (a) 50% (b) **0.6** (c) 0.060 (d) 6%
- 4 Area of the opposite trapezium is cm^2
 (a) 42 (b) 66
 (c) 24 (d) **33**
- 5 The area of opposite square pyramid is
 (a) 25 (b) 15
 (c) 40 (d) **85**
- 6 The image of the point $(-1,5)$ by reflection x-axis is
 (a) $(5, -1)$ (b) $(1, -5)$ (c) **$(-1, -5)$** (d) $(1,5)$
- 7 The area of rhombus whose perimeter is 40 cm and height 8 cm is
 (a) 320 (b) **80** (c) 160 (d) 48
- 8 The distance between the two points $(-1,3)$ and $(4,3)$ is Units .
 (a) **5** (b) 3 (c) 0 (d) 4
- 9 The surface area of a cuboid its length 10 cm , width 5 cm and height 6 cm is ...
 (a) $21 cm^2$ (b) $56 cm^2$ (c) **$280 cm^2$** (d) $300 cm^2$



Question 2 : Answer the following questions :

- 1 The two base length of a parallelogram are 8 cm , 6 cm and the smaller height it 3 cm , calculate the greater height of the parallelogram ?

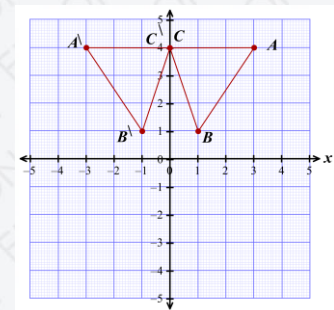
$$A = b \times h$$

$$A = 3 \times 8 = 24 \text{ } Cm^2$$

$$h = 24 \div 6 = 4 \text{ } cm$$

- 2 Plot the points $A(3,4)$, $B(1,3)$, $C(1,1)$
 join them and find the image
 of each reflection across the y-axis .

$$A' = (-3,4), B' = (-1,3), C' = (-1,1)$$



- 3 The price of a mobile phone before discount is 6000 L.E if the discount was 25% , What is the price after discount ?

$$10\% \text{ of } 6000 = 600 \text{ L.E} , 20\% = 600 \times 2 = 1200 \text{ L.E}$$

$$5\% \text{ OF } 6000 = \frac{1}{2} \text{ of } 10\% = \frac{1}{2} \times 600 = 300 \text{ L.E}$$

$$25\% = 1200 + 300 = 1500 \text{ L.E}$$

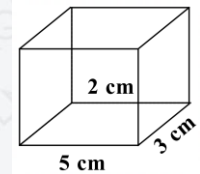
$$\text{After discount} = 6000 - 1500 = 4500 \text{ L.E}$$

- 4 Find the surface area of the opposite solid ?

$$A = 2(Lw + wh + hL)$$

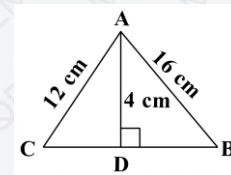
$$A = 2(5 \times 3 + 5 \times 2 + 3 \times 2)$$

$$A = 2(15 + 10 + 6) = 2 \times 31 = 62 \text{ CM}^2$$



- 5 ABC is a right angled at A , $\overline{AD} \perp \overline{BC}$

If $AB = 16 \text{ cm}$, $AC = 12 \text{ cm}$ and $AD = 9 \text{ cm}$,
find the area of ΔABC

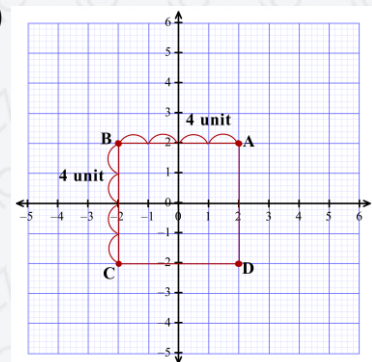


$$A = \frac{1}{2} \times b \times h = \frac{1}{2} \times 12 \times 16 = 96 \text{ CM}^2$$

- 6 Plot the points $A(2,2)$, $B(-2,2)$, $C(-2,-2)$ and $D(2,-2)$

What is the name of the figure ABCD ?

Rectangle



- 7 Find the surface area of the given triangular prism ?

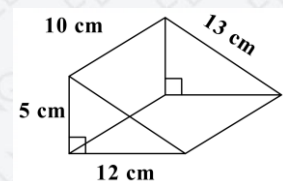
$$\text{face 1} = 10 \times 5 = 50 \text{ cm}^2$$

$$\text{face 2} = 10 \times 12 = 120 \text{ cm}^2$$

$$\text{face 3} = 10 \times 13 = 130 \text{ cm}^2$$

$$\text{face } \Delta = 2 \left(\frac{1}{2} \times b \times h \right) = 2 \left(\frac{1}{2} \times 5 \times 12 \right) = 2 \times 30 = 60$$

$$\text{total} = 50 + 120 + 130 + 60 = 360 \text{ cm}^2$$



حمل الآن

مجاناً وحصرياً

المراجعة رقم (8)

اختبار شهر ابريل



MODEL (1)



Choose the correct answer :

1 Which of the following points lies in the third quadrant?

- (a) (5, 4) (b) (5, -4) (c) (-4, 5) (d) (-5, -4)

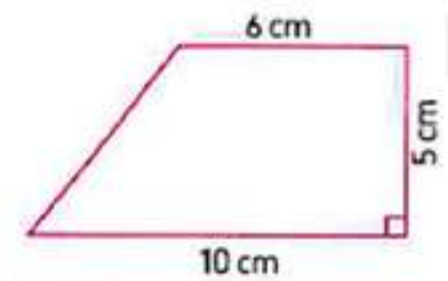
2 The x-coordinate for the origin point is

- (a) (0, 0) (b) 1 (c) 0 (d) (0, 1)

3 The point (1.25, -2.5) lies in quadrant.

- (a) first (b) second (c) third (d) forth

4 The area of the opposite.
trapezium = cm^2



- (a) 40 (b) 50 (c) 80 (d) 110

5 Which of the following points lies on the x-axis?

- (a) (5, 0) (b) (0, 3) (c) (1, 1) (d) (6, 2)

6 All of the following points lie in the forth quadrant except : the point....

- (a) (2, -1.5) (b) (1.5, -1.5) (c) (-2.25, -2.5) (d) (2, -2.5)

7 From the opposite figure,
if the distance between A and B is 200, then $x = \dots\dots\dots$



- (a) 350 (b) -350 (c) -50 (d) 50

8 The point (a, 4) lies on the y-axis, then the value of a is

- (a) 0 (b) 1 (c) 4 (d) 2

9 A triangle has a base length 6 cm and the corresponding height to this base is 4 cm . Then its area is

- (a) 40 (b) 50 (c) 80 (d) 12

MODEL (1)



Answer The following questions :

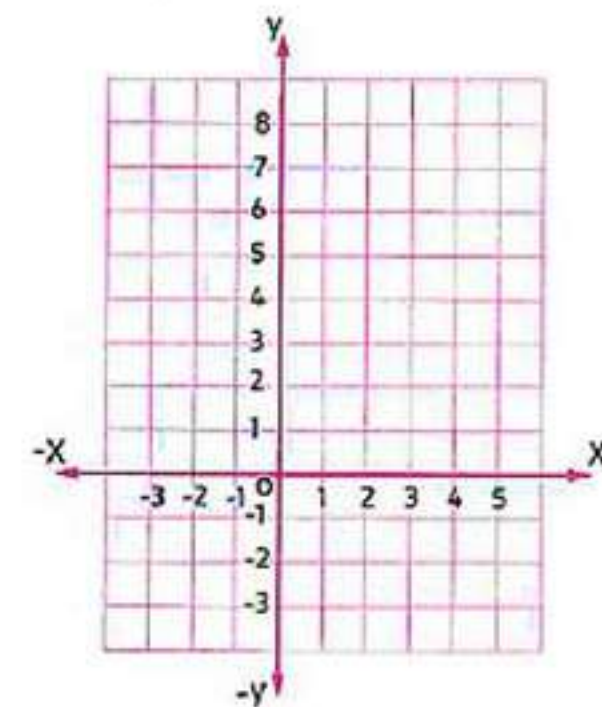
1 What is the volume of a cuboid whose dimensions are 10cm , 5cm and 2cm?

2 What is the number of days it will take her to drink all the juice?

3 Plot the two ordered pairs and
find the distance between them :

$A(2, 5)$, $B(2, 8)$

Distance =

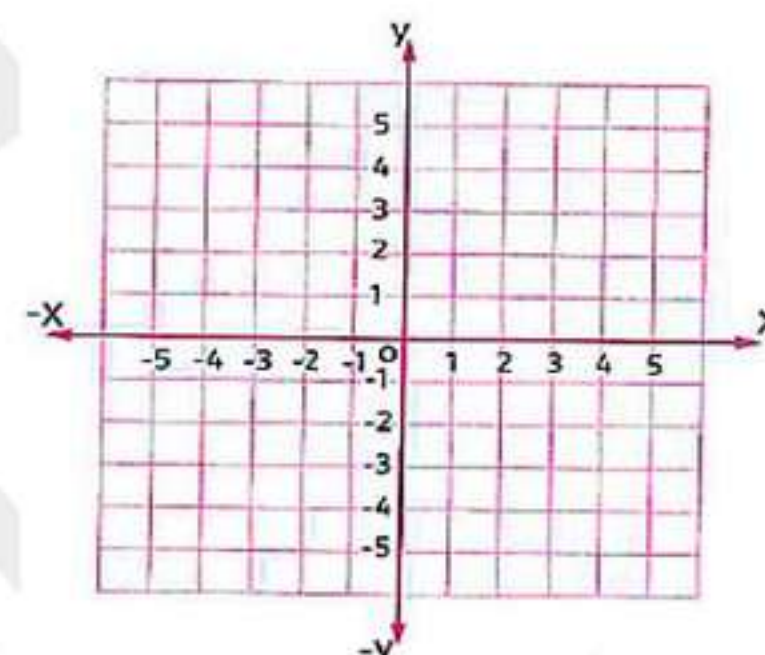


4 Find the area of a triangle whose base length 6m and corresponding height 3m.

5 The point $(-3, 4.5)$ is the image of the point $(3, 4.5)$ by reflection in which axis?

6 The two base lengths of a parallelogram are 10cm and 8 cm. the smaller height is 5cm. find the area of the parallelogram.

7 Plot the points $A(2, 4)$, $B(2, 1)$, $C(5, 4)$
Join them and find the image of each one by reflection across the Y-axis.



MODEL (2)



Choose the correct answer :

1 The reflection of the point $(-\frac{1}{4}, -2\frac{1}{2})$ in the y - axis results in the point

(a) $(-\frac{1}{4}, 2\frac{1}{2})$ (b) $(\frac{1}{4}, 2\frac{1}{2})$ (c) $(\frac{1}{4}, -2\frac{1}{2})$ (d) $(-2\frac{1}{2}, -\frac{1}{4})$

2 If the point (a , b) lies on the x-axis, then the symbol whose value equals zero is

(a) a (b) b (c) both (d) neither of them

3 A triangle has a base length 8 cm and the corresponding height to this base 4 cm. Then its area is

(a) 32 cm (b) 32 cm^2 (c) 16 cm (d) 16 cm^2

4 The y-coordinate in the ordered pair (3 , 7) is

(a) 7 (b) 3 (c) 73 (d) 37

5 The point (2.5 , -1.25) lies in quadrant.

(a) first (b) second (c) third (d) fourth

6 The distance between the two numbers -9 and -6 on the number line equals units.

(a) 9 (b) 3 (c) 15 (d) 6

7 A parallelogram has a base length 11 cm and the corresponding height to this base is 7 cm. Then its area is

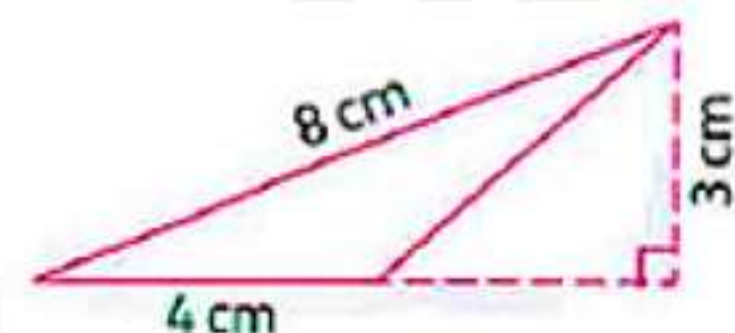
(a) 77 cm (b) 77 cm^2 (c) 18 cm (d) 18 cm^2

8 The two points (5 , 8) and (5 , 3) lie on

(a) one vertical line (b) One horizontal line
(c) both of the two lines (d) Non of the previous

9 The area of the opposite triangle = cm^2

(a) $\frac{1}{2} \times 4 \times 8$ (b) $\frac{1}{2} \times 4 \times 3$
(c) $\frac{1}{2} \times 8 \times 3$ (d) $\frac{8}{2} \times 3$

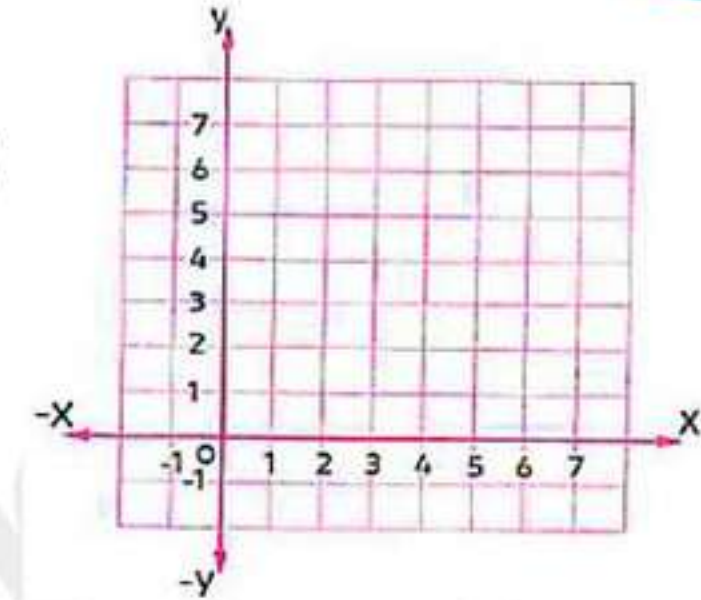


MODEL (2)

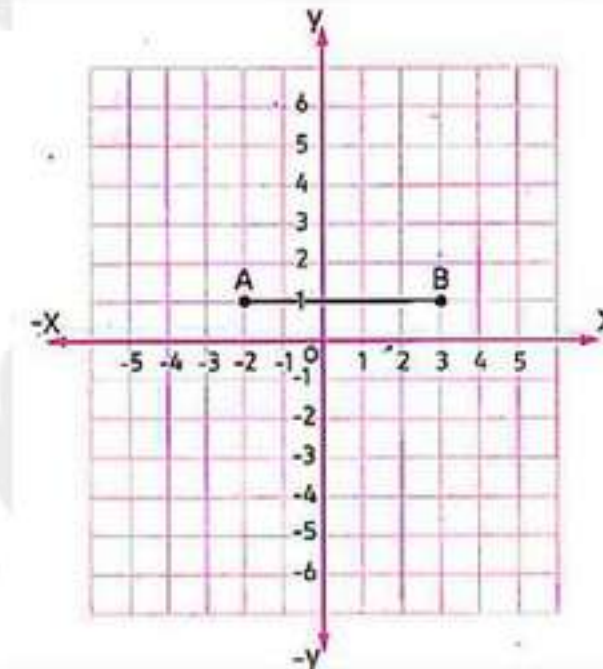


Answer The following questions :

- 1 Locate the following points on the coordinate plane and connect the points in order A (1, 1) B(1, 5), (4, 5), D(4, 1), identify the shape.



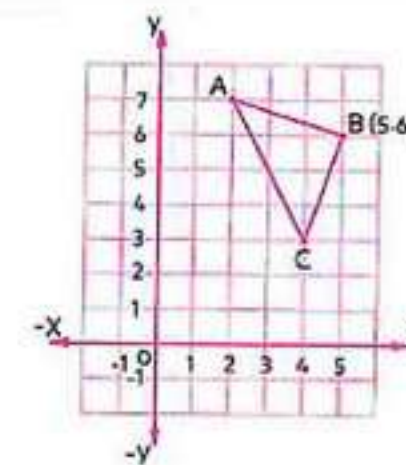
- 2 In the opposite figure :
Write the coordinates of the point A and B



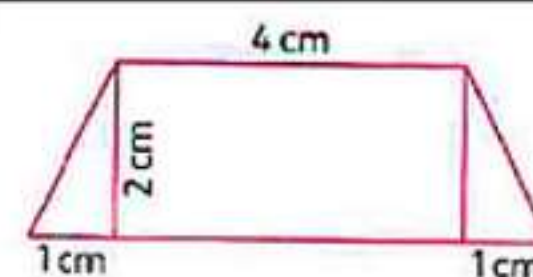
- 3 The price of a mobile phone before a discount is 3000 pounds.
If the discount is 10%. What is its price after the discount?

- 4 A triangle has a base length 13 cm and a corresponding height 6.7 cm.
Find its area to the nearest tenth.

- 5 Use the opposite figure, to find :
a. Point A (..... ,)
b. Point C (..... ,)



- 6 Find the area of the following trapezium.



- 7 A rhombus has a side length 11 cm and a height of 6 cm.
Find its area.

MODEL (3)



Choose the correct answer :

- 1 the distance between the two numbers -8 and -5 on the number line equals units
 (a) 8 (b) 5 (c) 13 (d) 3
- 2 The point that can be added to the points (2 , 1) , (-2 , -1) to form a rectangle is
 (a) (1 , 1) (b) (1 , -1) (c) (2 , -1) (d) (-2 , 1)
- 3 Reflection of the point in x-axis is the point (-4 , -7) .
 (a) (-4 , 7) (b) (4 , -7) (c) (-4 , -7) (d) (4 , 7)
- 4 The point lies on the x-axis.
 (a) (2 , 0) (b) (2 , 3) (c) (1 , 1) (d) (0 , 2)
- 5 A parallelogram has a base length 10 cm and the corresponding height to this base is 8 cm. Then its area is
 (a) 80 cm (b) 80 cm² (c) 8 cm (d) 18 cm²
- 6 If the point (-1 , 3) is moved 2 units to the right and 4 units down, then the new point is
 (a) (-3 , 7) (b) (1 , 7) (c) (1 , -1) (d) (3 , 1)
- 7 If the price of a shirt is 200 L.E. , then $\frac{1}{2}$ % of its price = L.E.
 (a) 2 (b) 10 (c) 1 (d) 0.5
- 8 20% of 40 kg = kg.
 (a) 16 (b) 12 (c) 8 (d) 4
- 9 Reflection of the point (-4 , 7) in y-axis results the point
 (a) (-4 , 7) (b) (4 , -7) (c) (-4 , -7) (d) (4 , 7)

MODEL (3)

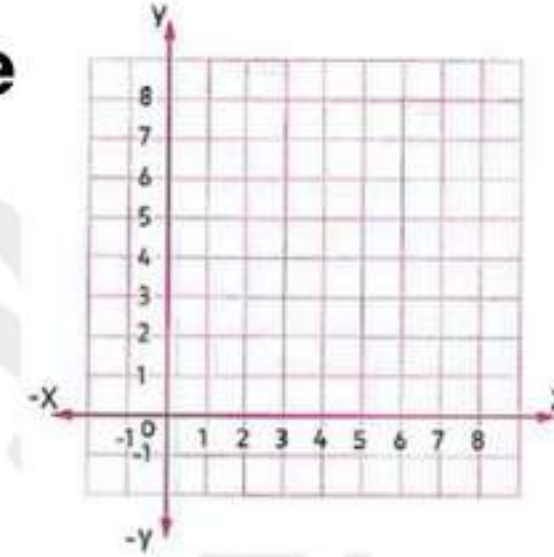
Answer The following questions :



1 Locate the following points on the coordinate plane

A (3 , 2)

B(6 , 0)

point C is 3 units to the left of point B
and 4 units up.

2 A parallelogram has a base length 11 cm. and the corresponding height to this base is 6 cm. Find its area.

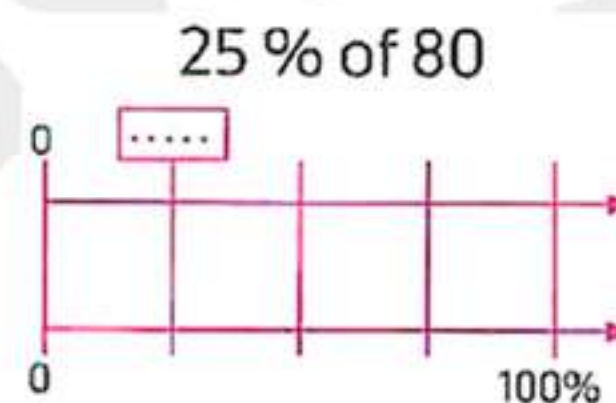
3 Mona ate 4 apples of 20 apples. Find the percentage of the number of apples she ate.

4 If the height of a rhombus is 8 cm and its area is 72 cm^2 .
Find its side length.

5 There are 250 pupils in a school, 15 pupils of them were absent in one day. Find the percentage of absentees on that day.

6 Find the y-coordinate of the ordered pair (7 , 5)

7 Use the given model to find the missing.



كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9

